EXHIBIT 1

	Page 1
1	Exhibits 1 - 5 Vol. 1, Pgs. 1 - 53
2	UNITED STATES DISTRICT COURT
3	DISTRICT OF MASSACHUSETTS
4	Civil Action No. 04-10233-RCL
5	
6.	JONATHAN BEIJAR
7	Plaintiff
8	VS.
9	STANLEY FASTENING SYSTEMS, L.P.
10	Defendant
11	
12	
13	DEPOSITION of WAYNE PINARD
14	Monday, May 17, 2004, 10:10 a.m.
15	Lang, Xifaras & Bullard
16	115 Orchard Street
17	New Bedford, Massachusetts
18	
19	
20	
21	
22	Reporter: David A. Arsenault, RPR
23	Farmer Arsenault Brock LLC, Boston, MA
24	(617) 728-4404

Page 12 Page 10 1 after they had been cut? years. 2 Q. Do you know where he lived when he was 2 A. We cut them. 3 O. And he moved them? 3 working for you? A. He stands them up and leans them over 4 A. In New Bedford, I believe. 4 5 Q. When was he last employed by Care Free 5 against the wall. Q. I think your testimony was that they 6 Homes? 6 bumped the staging? 7 A. I think he was with me probably another 7 A. Well, Jon Beijar was the only one 8 8 five or six months after that incident. 9 Q. Now, you said that you witnessed the 9 carrying rafters. As he's carrying the rafters, he hit the staging plank with the rafter. That caused accident to Mr. Beijar? 10 10 the gun to walk off the plank a little bit. A. Yes, I did. 11 11 Q. For purpose of clarity, you'll hear me Q. What did you see? 12 12 use the term nailer or tool, as opposed to gun, A. What I saw, we were cutting rafters, 13 13 leaning them up against the house. We had a 14 only because the tool is a pneumatic tool that 14 staging plank up about 7 feet off the ground. It operates off of air, correct? 15 15 16 was the Bostitch nailer on the plank. We were 16 A. Correct. nailing rafters up at the time. And when we were Q. I'll use that to mean the pneumatic 17 17 nailer that was involved in this accident. standing the rafters up, they hit the plank. They 18 18 were bumping into the plank and the gun was 19 19 Q. I probably won't use the word "gun." starting to fall off, hanging off the plank a 20 20 A. We call them guns. It is just habit. little bit. That's when I asked Jon Beijar to fix 21 21 O. It is an acronym in the industry. 22 the gun, push it on the plank before it fell. 22 Q. What happened? A. Yes, a pneumatic gun. 23 23 Q. I'm going to show you what we marked as A. He apparently couldn't reach it. He 24 24 Page 13 Page 11 Exhibit 2 to Mr. Beijar's deposition, which was grabbed the line with his left hand and he pulled taken about two weeks ago. Can you take a look at 2 2 it. 3 3 Q. He pulled what? that. 4 A. The air line, it was attached to the gun. 4 A. That's the gun. It was hanging down. He pulled the air line off, 5 Q. Can you identify them? 5 A. A Bostitch nailer N 80 stick nailer. I and he pulled the gun off and it fell. As it fell, 6 6 7 guess that's the model. 7 he caught it with his right hand and pulled the trigger and caught it like a football and pulled it 8 Q. Is that the nailer that was involved in 8 Mr. Beijar's accident? 9 into his chest, and that's when I heard it fire. 9 10 Q. What time day was it when the incident 10 A. Yes, I was. It has a smooth top. It is the only gun I had with that type of top. 11 occurred? 11 O. When you say a smooth top, are you 12 12 A. It happened in the morning somewhere talking the back of the tool? 13 around 9:00 or 10:00. 13 A. The head up here, it doesn't have a screw 14 Q. Where were you at that time? 14 A. I was cutting rafters with the saw. or anything. Most of them have a little air thing 15 15 you can spin around. This one doesn't have it. Q. Was anybody working with you cutting 16 16 For some reason this one doesn't have it. 17 17 rafters? 18 A. Dave Santos. He was at the other end. 18 Q. Did you ever operate this tool? 19 A. Yes, I did. 19 We cut the rafters at the same time, one on each Q. Did you operate it prior to Mr. Beijar's 20 20 end. Q. What was Mr. Beijar's job? 21 accident? 21 A. He was just a laborer. He was a laborer. 22 22 A. Yes, I did. O. And in what form? How did you use it? 23 He was carrying the rafters, standing them up. 23 Q. So Mr. Beijar was picking up the rafters 24 A. Any nailing, whatever framing material I 24

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	l was nailing, building walls, putting rafters up,	1	sites at Care Free Homes before Mr. Beijar's
1 2		2	accident?
3		3	A. Oh, yes, plenty.
4		4	Q. And were you as the foreman satisfied
1 5		5	with the performance of those?
1 6		6	A. Oh, yeah. They are beautiful guns. We
7		7	don't have any problems with them.
8	A. No.	8	Q. Have you continued to use Stanley
9	Q. How did it work?	9	pneumatic nailers after Mr. Beijar's accident?
10	A. It worked like it was supposed to. It	10	A. Yes.
11	was a brand-new gun. It was only a week old.	11	Q. Why is that?
12	Q. Had you worked with pneumatic nailers	12	A. They are great nailers. They seem to
13	before?	13	work the best of all of them. I tried them all.
14		14	Q. After Mr. Beijar's accident, what
15	· · · · · · · · · · · · · · · · · · ·	15	happened to this tool that we marked as Exhibit 2
16		16	to his deposition?
17	· · · · · · · · · · · · · · · · · · ·	17	A. What happened to it?
18	· · · · · · · · · · · · · · · · · · ·	18	Q. What did you do with it?
19		19	A. We brought it to the office. I gave it
20		20	to Wayne, Jr., Wayne Edwards.
21	A. They make a good product, a very good	21	Q. And did it stay there?
22	gun. They are a very good pneumatic nailer.	22	A. It sat in the office for quite some time.
23	Q. How many pneumatic nailers were on the	23	Q. Was it ever put back into service?
24	job site on the day of Mr. Beijar's accident?	24	A. We put it back into service probably six
	Page 15		Page !
1	A. I'm not sure exactly.		months, eight months later.
2	Q. Can you give me	2	Q. And why did you put it back into service?
3	A. I'm sure there was two or three out that	3	A. I need guns. Basically I need more.
4	day.	4	Q. You say six to eight months later. That
5	Q. Were they all framing nailers or	5	would have been sometime in the fall of 2001?
6	different types of tools?	6	A. Yeah.
7	A. Normally two framing nailers are out and	7	Q. And you used it up until the last month
8	one coil nailer.	8	or so?
9	Q. What do you use the coil nailer for?	9	A. Yes. Wayne asked for it back.
10	A. For plywood.	10	Q. How did it work?A. It worked beautiful.
11 12	Q. Same size nails?	11 12	
13	A. No, shorter, 8 D ring shank, full-head nail.	13	Q. Was there any service to that tool?A. None whatsoever.
13		14	
15	Q. Speaking of nails, do you know what type of nail was used in the tool that Mr. Beijar was	15	Q. Did you have any problems at all when you used it?
16	involved with?	16	A. No.
17	A. Yes, three-and-a-quarter-inch I'm not	17	Q. How frequently did you use it?
18	sure of the brand-name, three-and-a-quarter-inch	18	A. Pretty much every day.
19	stick nails.	19	Q. Now, Wayne, you mean Wayne, Jr.?
20	Q. They were generic as opposed to the	20	A. Yes, Wayne, Jr.
21	Stanley nails?	21	Q. Mr. Emerson what's his name, Wayne
22	A. I believe so. We buy them in bulk.	22	Edwards?
23	Q. Had you used had there been other	23	A. Wayne Edwards.
24	Stanley N 80 or N 79 nailers that were used on job	24	Q. When Mr. Edwards asked for the tool back,
			Z. TITEL T.M. Darratab abited for the tool baok,

	Page 18		Page 20
1	did you get a replacement tool?	1	Q. Did that box have a package like this one
2	A. Yes.	2	that had
3	Q. What kind of tool?	3	A. Yes, it did.
4	A. The same nailer, a newer model.	4	Q that had a sequential trigger in it?
5	Q. Did you put that into service?	5	A. Yes.
6	A. Yes.	6	Q. If Care Free Homes wanted to, they could
7	Q. Are you using that today?	7	have changed the contact trigger into a sequential?
8	A. Yes.	8	A. Yes, we could.
9	Q. What did you notice about the trigger	9	Q. And you opted not to do that?
10	when you got the gun?	10	A. Right.
11	A. The trigger was different. It would only	11	Q. Why was that?
12	shoot one nail at a time.	12	A. Because none of the guns ever came that
13	Q. One nail a time?	13	way. They always come with a contact trigger.
14	A. A sequential trigger.	14	That's how we learned to use them.
15	Q. What's the difference between a	15	Q. Does the contact tricker work better for
16	sequential trigger and a contact trigger?	16	your application?
17	A. Sequential you have to press the tip and	17	A. Yes.
18	then pull the trigger for the nail to shoot.	18	Q. I'd like to go back to Mr. Beijar's
19	Q. And contact is what?	19	accident. What time did you arrive on the job site
20	A. The contact you can hold the trigger and	20	that day?
21	depress the tip and it will shoot as many times as	21	A. We were getting in Osterville at the job
22	you hold the trigger.	22	site at 7:00 o'clock in the morning.
23	Q. Did you keep the sequential trigger on	23	Q. So you had been there three to four
24	the replacement tool?	24	hours, something like that?
		1	
	Page 19		Page J
1	Page 19	1	•
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23

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rafters against the plank?

A. Right.

WITNESS> - DATETEXT>

Page 36 Page 34 Q. And you saw if hit the plank? O. And this is where that window is; is that 2 2 A. Yes, as he was standing them up leaning right? into the house, they were bumping the plank. A. Yes. Does that work? 3 3 Q. And that was moving the plank? 4 Q. Thank you very much. Have you completed 4 that for me now? A. It was causing the plank to slide towards 5 5 the house. That's when I noticed the gun starting 6 A. Yes. 6 7 Q. If you could sign and date that. 7 to inch off the plank. Q. When you talked to Mr. Beijar -- what did A. (Witness complies.) 8 8 9 (Marked, Exhibit 4.) 9 you say to him again? A. I asked him to fix the gun before it 10 Q. One more drawing I'll ask you to do. 10 Could you show me the position of the nailer after 11 11 falls. Mr. Beijar had laid the rafters up against the Q. And did he say anything in reply? 12 12 A. No. He didn't. He started walking. planking and moved the planking, in other words, 13 13 where it was in relation to the plank. towards the gun. 14 14 Q. Where was he when you told him to fix the A. You want me to draw the same thing again? 15 15 16 Q. And show where the nailer was in relation 16 gun? to the plank. As I look at Exhibit 4 you've got no A. He wasn't far. He was walk between the 17 17 piles and grabbing the rafters and standing them up 18 part of the nailer. 18 against the house. He was in between there. I'm A. I see. 19 19 not sure where he was exactly when I told him that 20 20 Q. Can you show me where it was after 21 Mr. Beijar hit the planking with the rafters. 21 day. That was his job. A. (Witness complies.) Q. When you told him to fix the gun before 22 22 it falls, did he reply to you at all? Q. If you can put in the air hose again the 23 23 way you did before. A. No, he didn't. 24 24 Page 37 Page 35 A. (Witness complies.) Q. What did he do? 1 A. He started walking over to the nailer. 2 Q. Label this as position 2. 2 Q. And what did you see next? 3 A. (Witness complies.) 3 A. Then he reached up. It was just out of 4 Q. And sign and date it, please. 4 5 A. (Witness complies.) 5 reach. He couldn't -- he wasn't tall enough to push it back on the plank. 6 (Marked, Exhibit 5.) 6 O. You saw him try to do that? 7 Q. You told me, sir, that Mr. Santos was 7 A. Yes. 8 with you cutting the rafters. Where was 8 Q. And so if you wanted to push it back on 9 Mr. Cordeiro? 9 10 10 the plank, you would have to take the bottom of the A. I'm not sure at the time. magazine and push it? 11 Q. Now, looking at your drawing Exhibit 5, 11 A. That's all it would have taken. Just a it looks like the bottom part of the stick was off 12 12 of the, protruding off of the plank by some number 13 13 little push. of inches? O. Was there any scrap wood around? 14 14 A. There was ladders around. He could have 15 A. Yes, it was. 15 used the rafter that was standing up near it. 16 Q. Do you know roughly how much? 16 There were a number of things he could have done. A. Probably 6 to 8 inches. 17 17 O. There was a ladder, you said, that was 18 Q. But the head and the tip of the tool were 18 still on the plank? 19 19 near it? A. Yes, it was. A. There were stepladders. We always have 20 20 stepladders around. Q. And that's when -- you said you saw 21 21 Mr. Beijar lay the planking against the -- the O. But he chose not to do that. Instead he 22 22

23

24

did what?

A. Before I could say anything, he reached

24

Q. Now, in the split second that you

WITNESS> - DATETEXT>

Page 40 Page 38 1 estimate transpired between the time he pulled on up with his left hand and pulled on the air line, 1 2 the air hose with his left hand and the time you pulling the gun off the plank. 2 3 Q. Was there anything in his right hand at 3 heard it discharge, you say he reached with his 4 the time? 4 right hand? 5 A. As the gun fell off the plank, he caught A. No. 5 6 Q. And then you said he reached up with his it pretty much with his right hand as it was 7 left hand and pulled on the air hose, I take it? 7 falling towards him. A. He pulled on the air line, because that 8 8 Q. And as he grabbed it with his right hand 9 was hanging down. 9 as it was falling, he pulled it into his body? 10 Q. With his left hand he pulled the tool 10 O. Where was his right hand positioned on 11 towards him? 11 12 A. He pulled it towards him, which caused it 12 the tool? 13 to fall off the plank. A. It appeared that he grabbed it by the 13 14 Q. Now, when it fell, after Mr. Beijar 14 handle. 15 pulled on the air hose to cause it to fall towards 15 O. Here (indicating)? 16 him, could you see how the tool was positioned? In A. By the rubber handle. The gun was facing 16 towards him. It looked like he grabbed it 17 other words, was it upright like this (indicating) 17 or upside down so that the head was on the bottom? backwards with the gun facing backwards. 18 18 19 MS. DAVIS: Objection. 19 Q. Like this (indicating)? 20 Q. Describe for me how you saw the position 20 A. With his thumb, actually, with his thumb 21 of the tool. 21 on the trigger. 22 Q. Like this (indicating)? A. Well, it kind of fell off sideways. It 22 A. Yes. 23 was laying sideways on the plank. It was sideways. 23 The tail went first because that's what the air 24 24 Q. So the back of his hand was behind the Page 4 1 line is attached to. 1 tool --2 2 Q. And how much time passed between the time A. Yes, it was. 3 that he pulled on the air line with his left hand 3 Q. -- as it is upside down? 4 and the time you heard it discharge? 4 5 A. A split second. Q. And his right thumb hit the trigger? 5 6 O. What was the total distance that the tool Q. Could you tell whether or not his thumb 7 had to travel? 7 8 A. Maybe 4 to 5 feet. hit the trigger before it hit his chest? 8 9 A. No, I couldn't. He was facing away from Q. How tall is Mr. Beijar? 9 10 A. I believe about my height, 5-5, 5-6. me. All I saw him do was grab it in that manner 10 Q. And it hit him basically right in the with his right hand. 11 11 12 chest? 12 Q. It could have been when he grabbed it 13 with his right hand, his fingers on the outside of A. Yes. It looked like he caught it by the 13 14 handle with his right hand as it was falling 14 the tool, his thumb hit the trigger? A. Yes. towards him. Then he just pulled it into his chest 15 15 16 for some reason, like he was catching a football. 16 Q. His thumb hit the trigger either before I know you have to do two things to shoot. You the tip hit his chest or after the tip hit his 17 17 18 have to hold the trigger and depress the tip. chest. You couldn't tell that, 18 19 Q. All the time you used this tool the week 19 A. I couldn't tell that. He was facing way 20 before the incident and the two years after you put from me. His back was facing me. 20 Q. Was there anything impeding your view of 21 it back into service, did this tool ever discharge 21 without those two things happening? 22 Mr. Beijar's hand as you described his hand on the 22 23 A. No, it never has. 23 handle and his right thumb on the trigger?

24

A. No, I saw his right hand grab the gun,

Document 22-2

Page 48 Page 46 1 Q. Do you know if your wife typed this occurred? 1 A. When I told Jon Beijar to fix the gun 2 statement? 2 before it falls off the plank, I was standing there 3 A. I can't say for sure. I know I went over 3 watching him. 4 it with her. She took it down. I don't know if 4 5 5 O. Had you resumed any work activity from she typed it or somebody at Care Free Homes typed 6 the time that you told him? 6 7 Q. Do you recall what work Ryan Cordeiro was 7 A. No. 8 performing on the morning of February 1st? 8 Q. So from the time you gave him your 9 A. He was a laborer too. 9 instructions until the nail gun failed, you hadn't 10 Q. Do you recall what his assignment was resumed any work? 10 A. No, because the whole thing probably took 11 that morning? 11 only five seconds. He was only a few feet away. 12 A. I can't remember. I'm not sure. I had 12 Q. Had Care Free Homes done anything to 13 him doing something but I can't remember. 13 modify the nailer from the time it was purchased 14 Q. At the time of the accident was the air 14 hose, did it run behind the plank towards the house until the time of the accident? 15 15 or was it running away from the house? A. No. we did not. 16 16 17 A. It was in front of the plank away from 17 Q. Do you have a specific recollection of seeing any ladders in the area where the accident 18 the house. 18 19 Q. Could you see the trigger at the time the 19 occurred on February 1st? 20 accident occurred? A. I'm pretty sure there was a 6-foot 20 21 stepladder nearby. A. I could see the trigger. It was about 20 21 22 feet away. 22 Q. Do you recall seeing that stepladder 23 Q. Can you just show me how the tool was 23 nearby? 24 positioned towards Jonathan Beijar at the time of A. Yes. 24 Page 49 Page 47 the accident. 1 1 Q. If you can show me on Exhibit 3, if you 2 2 could just mark where the ladder is with an L. A. As it was falling? A. (Witness complies.) 3 Q. When he caught the tool. 3 A. It was facing like this (indicating). It Q. So you have drawn a ladder. You've 4 4 written ladder right next to that? 5 was falling. The air line was attached to this. 5 A. Yes. I hope I spelled it right. That's what he pulled on. It fell that way first. 6 7 Q. If you can hand the tool to me. If I'm 7 MS. DAVIS: I don't have any further 8 in -- was Jonathan Beijar -- he was facing away 8 questions. 9 from you at the time of the accident? **EXAMINATION** 9 10 A. He was facing towards the house. I was 10 BY MR. DUGGAN: Q. I want to ask one other thing to make 11 behind him. 11 12 something clear that I think I was not clear about. Q. And you were facing his back? 12 13 A. Yes. As the tool fell after Mr. Beijar 13 Q. And you were able to see the trigger from pulled on the air hose, it was in a position -- it 14 14 15 where you were positioned? 15 was in an upright position just before it hit him? 16 A. Well, I could see the whole gun clearly. 16 I could see the trigger. Q. Such that the tip of the tool was facing 17 17 18 Q. What were you doing at the time of the directly at him, correct? 18 accident? A. Yes. 19 19 Q. And the head of the tool was on top? 20 A. I was cutting more rafters. 20 21 Q. And were you in the process of cutting 21 rafters when the accident occurred? 22 22 Q. The magazine was facing the ground, the 23 A. No, I wasn't. bottom of the magazine was facing the ground? 23 24 Q. What were you doing when the accident

24

A. Correct.

	Page 50	Page \$7
$\frac{1}{2}$	Q. That's it. EXAMINATION	1 INDEX
3	BY MS. DAVIS:	3 WAYNE R. PINARD
4	Q. I just have one more question. Was	4 EXAMINATION BY
5	Jonathan Beijar's body in between you and the	5 MR. DUGGAN 3 6 MS. DAVIS 45
6 7	nailer at the time the accident occurred? A. Yes, it was.	6 MS. DAVIS 45 7 MR. DUGGAN 49
8	Q. That's it.	8 MS. DAVIS 50
	(11:19 a.m.)	9
10	(1113)	10
11		11
12		12 EXHIBITS MARKED
13		13 1 3
14		14 2 21 15 3 33
15		16 4 34
17		17 5 35
18		18
19		19 Marked exhibits retained by Christopher Duggan.
20		20
21		21
22		22
23		23
24		24
	Page 51	Page 53
1	CERTIFICATE OF COURT REPORTER	1 WAYNE PINARD
2	I, David A. Arsenault, Registered	2 ERRATA/SIGNATURE PAGE
3	Professional Reporter, do certify that the	3 PAGE LINE CHANGE OR CORRECTION AND REASON
4	deposition of WAYNE PINARD, in the matter of Beijar	4
5	v. Stanley Fastening Systems, took place at 10:10	5
6	a.m. on Monday, May 17, 2004; that the testimony of	6
7	said witness was taken by me in machine shorthand	
1 0		7
8	and thereafter reduced to writing by means of	7 8 9
9	and thereafter reduced to writing by means of computer-aided transcription; that said	7 8 9
1	and thereafter reduced to writing by means of	9
9 10	and thereafter reduced to writing by means of computer-aided transcription; that said transcription is a true record of the testimony	9 10 11 12 12 1 12 1 1 12 1 1
9 10 11 12 13	and thereafter reduced to writing by means of computer-aided transcription; that said transcription is a true record of the testimony given by said witness; that the witness was sworn by me, a Notary Public in and for the Commonwealth of Massachusetts, with my commission expiring on	9 10 11 12 13 1 1 12 13 1 1 1 1 1 1 1 1
9 10 11 12 13 14	and thereafter reduced to writing by means of computer-aided transcription; that said transcription is a true record of the testimony given by said witness; that the witness was sworn by me, a Notary Public in and for the Commonwealth of Massachusetts, with my commission expiring on May, 12, 2006; that I am neither counsel for,	9
9 10 11 12 13 14	and thereafter reduced to writing by means of computer-aided transcription; that said transcription is a true record of the testimony given by said witness; that the witness was sworn by me, a Notary Public in and for the Commonwealth of Massachusetts, with my commission expiring on May, 12, 2006; that I am neither counsel for, related to, nor employed by any of the parties to	9
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9 10 11 12 13 14 15 16	and thereafter reduced to writing by means of computer-aided transcription; that said transcription is a true record of the testimony given by said witness; that the witness was sworn by me, a Notary Public in and for the Commonwealth of Massachusetts, with my commission expiring on May, 12, 2006; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this deposition was taken, and further that I am not a relative or employee of any	9 10 11 12 13 14 I have read the foregoing transcript of my 15 deposition taken on May 17, 2004. Except for any 16 corrections or changes noted above, I hereby 17 subscribe to the transcript as an accurate record
9 10 11 12 13 14 15	and thereafter reduced to writing by means of computer-aided transcription; that said transcription is a true record of the testimony given by said witness; that the witness was sworn by me, a Notary Public in and for the Commonwealth of Massachusetts, with my commission expiring on May, 12, 2006; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this deposition was taken, and further that I am not a relative or employee of any attorney or counsel employed by the parties	9 10 11 12 13 14 I have read the foregoing transcript of my 15 deposition taken on May 17, 2004. Except for any 16 corrections or changes noted above, I hereby 17 subscribe to the transcript as an accurate record
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9 10 11 12 13 14 15 16 17 18	and thereafter reduced to writing by means of computer-aided transcription; that said transcription is a true record of the testimony given by said witness; that the witness was sworn by me, a Notary Public in and for the Commonwealth of Massachusetts, with my commission expiring on May, 12, 2006; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this deposition was taken, and further that I am not a relative or employee of any attorney or counsel employed by the parties thereto, nor financially or otherwise interested in	9
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EXHIBIT 2

Thursday February 1, 2001

David Santos

At around 12:30 pm, we were cutting rafters and leaning them onto the wall where there was a nail gun lying on the staging plank. When Jon laid his rafter onto the wall, he started to knock the gun off and Wayne the foreman asked him to move the gun back on the plank so it didn't fall. He then pulled on the hose and when he did, the gun fell landing into his hand while pulling the gun towards his chest while depressing the trigger and the gun fired a 3½ inch spike into his chest.

I then took Jon to the fire station where paramedics immediately transported him to Cape Cod Hospital and later to Boston Med. by helicopter.

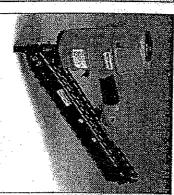
David Santos

EXHIBIT 3

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EXHIBIT 4

016 STAN 0000001



MANUAL DE OPERACIÓN Y DE MANTENIMIENTO MANUEL D'INSTRUCTIONS ET D'ENTRETIEN AWARNING: OPERATION and MAINTENANCE MANUAL A ADVERTENCIA: ALATTENTION:

BEFORE OPERATINGTHIS TOOL, ALL OPERATORS SHOULD STUDYTHIS MANUAL TO UNDERSTAND AND FOLLOW THE SAFETY WARNINGS AND INSTRUCTIONS, KEEP THESE INSTRUCTIONS WITH THE TOOL FOR FUTURE REFERENCE. IF YOU HAVE ANY QUESTIONS, CONTACT, YOUR BOSTITCH REPRESENTATIVE OR DISTRIBUTOR.

LIRE ATTENTIVEMENT LE PRÉSENT MANUEL AVANT D'UTILISER L'APPAREIL PRÈTER UNE ATTENTION TOUTE PARTICULIÈRE AUX CONSIGNES DE SÉCURITÉ ET AUX AVERTISSE-MENTS, GARDER CE MANUEL AVEC L'OUTIL POUR FUTUR RÉFÉRENCE. SI VOUS AVEZ DES ANTES DE OPERAR ESTA HERRAMIENTA, TODOS LOS OPERADORES DEBERÁN ESTUDIAR ESTE MANUAL PARA PODER COMPRENDER Y SEGUIR LAS ADVERTENCIAS SOBRE SEGURIDAD Y LAS INSTRUCCIONES, MANTENGA ESTAS INSTRUCCIONES CON LA HERRAMIENTA PARA FUTURA REFERENCIA, SI TIENE ALGUNA DUDA, COMUNÍQUESE CON SU REPRESENTANTE DE BOSTIFOLI CON SU REPRESENTANTE DE BOSTIFICA DE BOSTIFOLI CON SU REPRESENTANTE DE BOSTIFICA DE BOSTIFICA DE BOSTIFICA DE BOSTIFICA DE BOSTIFICA DE BOS QUESTIONS, CONTACTEZ VOTRE REPRÉSENTANT OU VOTRE CONCESSIONNAIRE TANTE DE BOSTITCH O CON SU DISTRIBUIDOR

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BOSTITCH Stanley Fastening Systems

N79WW/N80SB

CLAVADORA NEUMÁTICA ALIMENTADA POR BARRA CLOUEUR PNEUMATIQUE A CARTOUCHE PNEUMATIC STICK NAILERS



INTRODUCTION

The Bostitch N79WW/N80SB Is a precision-built tool, designed for high speed, high volume nalling. These tools will deliver efficient, dependable service when used correctly and with care. As with any fine power tool, for best performance the manufacturer's instructions must Bostitch, Inc., East Greenwich, Phode Island 02818. or distributor with any questions concerning the tool and its use required because of your particular application of the tool. Contact your Bostitch representative be followed. Please study this manual before operating the tool and understand the safety read carefully, and the manual kept for reference. NOTE: Additional safety measures may be warnings and cautions. The instructions on installation, operation and maintenance should be

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Lubrication
Operating Pressure, Setting Correct Pressure
Air Supply: Fittings, Hoses, Filters, Air Consumption, Regulators,
Tool Specifications
Safety Instructions

ZOTE

Bostitch tools have been engineered to provide excellent customer satisfaction and are designed to achieve maximum performance when used with precision Bostitch fasteners engineered to the same exacting standards.

Bostitch cannot assume responsibility for product performance if our tools are used with fasteners or accessories not meeting the specific requirements established for with fasteners or accessories not meeting the specific requirements established for



LIMITED WARRANTY

Bostitch, Inc., warrants to the original retail purchaser that this product is free from repairs attempted or made by other than our regional repair center or authorized warranty does not cover conditions or malfunctions resulting from normal wear, neglect, abuse, accident or transferable, it only covers damage resulting from defects in material or workmanship, and it any defective product within it year from the date of purchase. This warranty is not defects in material and workmanship, and agrees to repair or replace, at Bostitch's option, service center. Driver blades, bumpers and o-rings are considered normally wearing parts.

OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS LIMITED TO THE DURATION OF THIS WARRANTY. BOSTITCH SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. THIS WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES. ANY WARRANTY

limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty is limited to sales in the United States and Canada. Some states do not allow warranty gives you specific legal rights, and you may also have other rights which vary from

purchase to a Bostitch Regional or authorized warranty repair center. You may call us at To obtain warranty service, return the product at your expense together with proof of 1-800-556-6696 for the location of authorized warranty service centers in your area.

016 STAN 0000002



EYE PROTECTION which conforms to ANSI specifications and provides protection against flying particles both from the FRONT and SIDE should ALWAYS be worn by the operator and others in the work area when loading, operating or servicing this tool. Eye protection is required to guard against flying fasteners and debris, which could cause severe eye injury.

SAFETY INSTRUCTIONS

AWARNING:

The employer and/or user must ensure that proper eye protection is worn. Eye protection equipment must conform to the requirements of the American National Standards institute, ANSI 287,1-1989 and provide both frontsi and side protection. NOTE: Non-side shielded spectacles and face shields alone do not provide adequate protection,

CAUTION. ADDITIONAL SAFETY PROTECTION will be required in some environments. For example, the working area may include exposure to noise level which can lead to hearing deniage. The employer and user must ensure that any necessary hearing protection is provided and used by the operator and others in the work area. Some environments will require the use of head protection equipment. When required the employer and user must ensure that head protection conforming to ANSI Z89.1 1986 is used,

AWARNING:

AIR SUPPLY AND CONNECTIONS

Do not use oxygen, combustible gases, or bottled gases as a power source for this tool as tool may explode, possibly causing injury.

AWARNING: Do not use supply sources which can potentially exceed 200 P.S.I.G. as tool may burst, possibly causing injury.

The connector on the tool must not hold pressure when air supply is disconnected. If a wrong fitting is used, the tool can remain charged with air after disconnecting and thus will be able to drive a fastener even after the air line is disconnected possibly causing injury.

Do not pull trigger or depress contact arm while connected to the air supply as the tool may cycle, possibly causing injury.

AWARNING: Always disconnect air supply: 1.) Before making adjustments; 2.) When servicing the tool; 3.) When clearing a jam; 4.) When tool is not in use; 5.) When moving to a different work area, as accidental actuation may occur, possibly causing injury.

LOADING TOO

AWARNING: When loading tool: 1.) Never place a hand or any part of body in fastener discharge area of tool; 2.) Never point tool at anyone; 3.) Do not pull the trigger or depress the trip as accidental actuation may occur, possibly causing injury.

OPERATION

AWARNING: Always handle the tool with care: 1.) Never engage in horseplay; 2.) Never pull the frigger unless nose is directed toward the work; 3.) Keep others a safe distance from the tool while tool is in operation as accidental actuation may occur,

AWARNING: The operator must not hold the trigger pulled on contact arm tools except during fastening operation as serious injury could result if the trip accidentally contacted someone or something, causing the tool to cycle.

AWARNING: Keep hands and body away from the discharge area of the tool. A contact arm tool may bounce from the recoil of driving a fastener and an unwanted second fastener may be driven possibly causing injury.

AWARNING Check operation of the contact arm mechanism frequently. Do not use the toc the arm is not working correctly as accidental driving of a factener may result. not interfere with the proper operation of the contact arm mechanism. Do not use the tool If

AWARNING: Do not drive fasteners on top of other fasteners or with the tool at an overly steep angle as this may cause deflection of fasteners which could cause injury.

AWARNING: Do not drive fasteners close to the edge of the work piece as the wood may split, allowing the fastener to be deflected possibly causing injury.

MAINTAINING THE TOOL

When working on air tools note the warnings in this manual and use extra care when evaluating problem tools.

AWARHING:

N79WW/N80SB TOOL SPECIFICATIONS

:		7
MODEL	179WW/NBDSB-1	179WW/NB0SB-2
ACTUATION	Contact Inp	W/N80SB-2 Sequential Trip
LENGTH	18-3/8" (466mm)	18-3/8" (466mm)
неіснт	14" (355mm)	14" (355mm)
WIDTH	5-7/16" (138mm)	5-7/16" (138mm)
WEIGHT	8)b, 2oz (4.0)	Bib. 20z. (4.0k

FASTENER SPECIFICATIONS:

This tool uses a wide range of nail sizes in lengths of 2" to 3-1/2" (50 - 90mm) and shank diameters of .113" to .131" (2.8 - 3.3mm) This tool uses a 1/4" N.P.T. male plug. The Inside diameter should be .275" (7mm) or larger. The fitting must be capable of discharging tool air pressure when disconnected

OPERATING PRESSURE:

from the air supply.

70 to 100 p.s.l.g. (4.9 to 7.0 kg/cm²). Select the operating pressure within this range for best fastener performance. DO NOT EXCEED THIS RECOMMENDED OPERATING

The N79VW/N80SB requires 7.8 cubic feet per minute (221 liters per minute) of free air to operate at the rate of 100 nails per minute, at 80 p.s.l. (5.6 kg/cm²). Take the actual rate at which the tool will be run to determine the amount of air required. For instance, if your fastener usage averages 50 nails per minute, you need 50% of the 7.8 c.f.m. (221 liters per minute) which is required to operate the tool at 100 nails per minute.

OPERATION

BOSTITCH OFFERS TWO TYPES OF OPERATION FOR THIS SERIES TOOL

CONTACT TRIP

each time the work is contacted. This will allow rapid tastener placement on many jobs, work to actuate the trip mechanism while keeping the trigger pulled, thus driving a fastener such as sheathing, decking and pallet assembly. The common operating procedure on "Contact Trip" tools is for the operator to contact the

releasing the trip, and if unintentionally allowed to recontact the work surface with the trigger still actuated (finger still holding trigger pulled) an unwanted second fastener will be driven. All prieumatic tools are subject to recoil when driving fasteners. The tool may bounce,

SEQUENTIAL TRIP

The Sequential Trip requires the operator to hold the tool against the work before pulling the trigger. This makes accurate fastener placement easier, for instance on framing, toe nailing and crating applications.

The Sequential Trip allows exact fastener location without the possibility of driving a second fastener on recoil, as described under "Contact Trip".

The Sequential Trip Tool has a positive safety advantage because it will not accidentally drive a fastener if the tool is confacted against the work – or anything else – while the operator is holding the trigger pulled.

MODEL IDENTIFICATION:

Refer to Operation Instructions on page 4 before proceeding to use this tool

BLACK TRIGGER

CONTACT TRIP



SEQUENTIAL TRIF

GRAY TRIGGER



AIR SUPPLY AND CONNECTIONS

AWARNING

Do not use oxygen, combustible gases, or bottled gases as a power source for this tool as tool may explode, possibly causing injury.

Install a male plug on the tool which is free flowing and which will release air pressure from the tool when disconnected from the supply source

. . .

supply hose should contain a fitting that will provide "quick disconnecting" from the male Air hoses should have a minimum of 150 p.s.l. (10.6 kg/cm²) working pressure rating or plug on the tool. 150 percent of the maximum pressure that could be produced in the air system. The

SUPPLY SOURCE:

* *...

OXYGEN, COMBUSTIBLE GASES, OR BOTTLED GASES, AS A POWER SOURCE FOR THIS TOOL AS TOOL MAY EXPLODE.

016 STAN 0000003

REGULATOR:

A pressure regulator with an operating pressure of 0 · 125 p.s.i. (0 - 8.79 KG/CMr) is required to control the operating pressure for safe operation of this tool. Do not connect this burst, possibly causing injury. too) to air pressure which can potentially exceed 200 p.s.i. (14 KG/CM²) as too! may fracture or

OPERATING PRESSURE:

increased. The air supply must be capable of maintaining the operating pressure at the tool. Pressure drops in the air supply can reduce the tool's driving power. Refer to "TOOL SPECIFICATIONICS" for maintaining the operating pressure at the tool. CATIONS" for setting the correct operating pressure for the tool. Do not exceed recommended maximum operating pressure as tool wear will be greatly

quate flow capacity for the specific installation. The filter has to be kept clean to be effective in providing clean compressed air to the tool. Consult the manufacturer's instructions on proper help to get the best performance and minimum wear from the tool. The filter must have ademaintenance of your filler. A dirty and clogged filter will cause a pressure drop which will educe the tool's performance Dirt and water in the air supply are major causes of wear in pneumatic toots. A litter will

LUBRICATION

Frequent, but not excessive, lubrication is required for best performance. Oil added through the air line connection will lubricate the internal parts. Use BOSTITCH Air Tool Lubricant, Mobil Velocite #10, or equivalent. Do not use detergent oil or additives as these lubricants will cause accelerated wear to the seals and bumpers in the tool, resulting in poor tool performance and frequent tool mainte-

If no atrline tubricator is used, add oil during use into the air fitting on the tool once or twice a day.
Only a few drops of oil at a time is necessary. Too much oil will only collect inside the tool and will be

COLD WEATHER OPERATION:

For cold weather operation, near and below freezing, the moisture in the air line may freeze and prevent tool operation. We recommend the use of BOSTITCH WINTER FORMULA air tool libricant or permanent antifreeze (ethylene glycol) as a cold weather lubricant.

CAUTION: Do not store tools in a cold weather environment to prevent frost or ice formation on <u>NOTE:</u> Some commercial air line drying liquids are harmful to "O"-rings and seals ~ do not use the tools operating valves and mechanisms that could cause tool failure.

NOTE: Use only nails recommended for use in Boathon N79WW/N80SB series nailers or

which meet the Boatitch spec

Release latch by pulling latch tab

and pusher together slightly to disengage, silde pusher against

LOADING THE N79WW/N80SB

AWARNING:

- EXE.PROTECTION which conforms to ANSI specifications and provides protection against flying particles both from the FRONT and SIDE should ALWAYS be worn by the operator and others in the work area when loading, operating or servicing this tool. Eye protection is required to guard against flying fasteners and debris, which could cause severe eye injury. The employer and/or user must ensure that proper eye protection is worn. Eye protection equipment must conform to the requirements of the American National Standards Institute, ANSI 287.1-1989 and provide both frontal and side protection. NOTE: Non-side shielded spectacles and face shields alone do not provide ade-
- quate protection. O PREVENT ACCIDENTAL INJURIES
- while the air supply is connected. Never place a hand or any other part of the body in nail discharge area of tool
- Never engage in horseplay Never point the tool at anyone else.
- Never pull the trigger unless nose is directed at the work. Always handle the tool with care.
- Do not pull the trigger or depress the trip mechanism while loading the tool

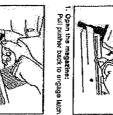


AWARNING: The Fastener Depth Control Adjustment feature provides control of the nell drive depth from flush with or just above

the work surface to shallow or deep countersink

TO ADJUST THE FASTENER DEPTH CONTROL:

FASTENER DEPTH CONTROL ADJUSTMENT





- With air pressure set, drive a few fasteners into a representative material sample to determine if adjustment is necessary.
- If adjustment is required. disconnect air supply

downward. Insert sticks of neits

-toki natler down with magazine tilted

If adjustment to the drive depth is required, measure the difference in depth between the nail as driven in the sample material and the desired drive. The depth control should be changed by the same amount. To

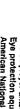
contacting element should be lengthened. To work contacting element should be shortened ics the drive depth, the work

- 4. Note the level at which the depth control is assembled. Decide what adjustment is required to achieve the length change determined in (2) above. The deshes on the front of the depth control are evenly spaced .08° (2mm). Zero would have the deepest countershik and 12 may leave the rail head above the work. The tool is shipped from the factory on setting "0".
- To make the adjustment, use a 10mm wranch or nul driver to loosen the (2) elastic stop nuts on the depth control approximately 2 full revolutions, it is not necessary to remove these nuts. Move the lower portion of the depth control to the desired height and lighten the nuts. Do not overlighten, Check that the work contacting element operates feely without sticking or binding.
- Reconnect air supply and drive a few fasteners in a sample of material to determine if adjustment is cornect. If further adjustment is necessary, disconnect air and repeat above.

AWARNING

flying fasteners and debris, which could cause severe eye injury. operating or servicing this tool. Eye protection is required to guard against tection against flying particles both from the FRONT and SIDE should ALWAYS be worn by the operator and others in the work area when loading, EYE PROTECTION which conforms to ANSI specifications and provides pro-

TOOL OPERATION



The employer and/or user must ensure that proper eye protection is worn. Eye protection equipment must conform to the requirements of the American National Standards Institute, ANSI 237.1-1989 and provide both shleids alone do not provide adequate protection. frontal and side protection. NOTE: Non-side shielded spectacles and face

BEFORE HANDLING OR OPERATING THIS TOOL

- READ AND UNDERSTAND THE WARNINGS CONTAINED IN THIS MANUAL,
- REFER TO "TOOL SPECIFICATIONS" IN THIS MANUAL TO IDENTIFY THE OPERATING SYSTEM ON YOUR TOOL.

There are three available systems on BOSTITCH pneumatic tools. They are:

1. THIGGER OPERATION 2. CONTACT TRIP OPERATION 3. SEQUENTIAL TRIP OPERATION

OPERATION

TRIGGER OPERATION

A TRIGGER OPERATED tool requires a single action to drive a fastener. Each time the trigger is pulled the tool will drive a fastener. The trigger operated model is intended for use only when a contact trip or sequential trip cannot be used due to the requirements of

CONTACT TRIP OPERATION

The CONTACT TRIP MODEL tool contains a contact trip that operates in conjunction with the trigger to drive a tastener. There are two methods of operation to drive tasteners with

A. SINGLE FASTENER PLACEMENT: To operate the tool in this manner, first fastener. Remove your linger from the trigger after each operation, (rigger to drive a tastener. Do not press the tool against the work with extra force instead, allow the tool to recoil off the work surface to avoid a second unwanted Depress the contact trip until the nose touches the work surface and then pull the position the contact trip on the work surface, WITHOUT PULLING THE TRIGGER

tool with the contact trip pointing towards but not touching the work surface. Pull the trigger and then tap the contact trip against the work surface using a bouncing motion. Each depression of the contact trip will cause a fastener to be driven. RAPID FASTENER OPERATION: To operate the tool in this manner, hold the

AWARNING:

AWARNING: The operator must not hold the trigger pulled on contact trip tools except during fastening operation, as serious injury could result it the trip accidentally contacted someone or something, causing the tool to

Keep hands and body away from the discharge area of the tool. A contact trip tool may bounce from the recoil of driving a fastener and an unwanted second fastener may be driven, possibly causing injury.

SEQUENTIAL TRIP OPERATION:

ger is depressed. If the contact trip is allowed to leave the work surface, the sequence with the trigger to drive a fastener. To operate a sequential trip tool, first position the contact trip on the work surface WITHOUT PULLING THE TRIGGER. Depress the condescribed above must be repeated to drive another lastener. facting the work and is held depressed, the tool will drive a fastener each time the trigtact trip and then pull the trigger to drive a fastener. As long as the contact trip is con-The SEQUENTIAL TRIP MODEL contains a contact trip that operates in conjunction

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TOOL OPERATION CHECK:

<u>CAUTION:</u> Remove all fasteners from tool before performing tool operation

. TRIGGER OPERATED TOOL:

A. With finger off the trigger, hold the tool with a firm grip on the handle

B. Place the nose of the tool against the work surface

C. Pull the trigger to drive. Release the trigger and cycle is complete.

CAUTION: THE TOOL WILL CYCLE EACH TIME THE TRIGGER IS PULLED!

CONTACT TRIP OPERATION:

C. With the tool off the work surface, pull the trigger Press the contact trip against the work surface. THE TOOL MUST CYCLE. B. Hold the tool off the work surface, and pull the trigger. THE TOOL MUST NOT CYCLE. A. With linger off the frigger, press the contact trip against the work surface THE TOOL MUST NOT CYCLE.

D. Without touching the trigger, press the contact trip against the work surface, then pull the trigger.
THE TOOL MUST CYCLE.

3. SEQUENTIAL TRIP OPERATION:

Press the contact trip against the work surface, without touching the trigger. THE TOOL MUST NOT CYCLE.

B, Hold the tool off the work surface and pull the trigger. THE TOOL MUST NOT CYCLE. Release the trigger. The trigger must return to the trigger stop on the frame.

C. Pull the trigger and press the contact trip against the work surface THE TOOL MUST NOT CYCLE.

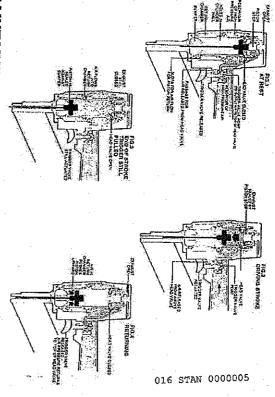
D. With linger off the trigger, press the contact trip against the work surface. Pull the trigger THE TOOL MUST CYCLE.

OBSERVE THE FOLLOWING FOR SAFE OPERATION IN ADDITION TO THE OTHER WARNINGS CONTAINED IN THIS MANUAL

- Use the BOSTITCH pneumatic tool only for the purpose for which it was
- Never use this tool in a manner that could cause a fastener to be directed toward the user or others in the work area.
- Do not use the tool as a hammer
- Always carry the tool by the handle. Never carry the tool by the air hose.
- Do not after or modify this tool from the original design or function without approval from BOSTITCH, INC.
- Always be aware that misuse and improper handling of this tool can cause injury to
- Never clamp or tape the trigger or contact trip in an actuated position
- Never leave a tool unattended with the air hose attached
- Do not operate this tool if it does not contain a legible WARNING LABEL.
- Do not continue to use a tool that leaks air or does not function properly. Notify your nearest Bostitch representative if your tool continues to experience functional problems.

BASIC TOOL OPERATION

Bostlich pneumatic tools are cycled by a compressed air operated single piston design.
The following illustrations show the four functional cycles that occur when the tool is operated to drive a fastener;



MAINTAINING THE PNEUMATIC TOOL

AWARNING: When working on air tools, note the warnings in this manual and use extra care evaluating problem tools.

snap, with a chance of pinching your hand. Also the edges of the spring are very thin and could cut. Care must also be taken to insure no permenent kinks are put in the spring as this the spring assembly. The spring is wrapped around, but not attached to, a roller. If the spring is extended beyond its length, the end will come off the roller and the spring will roll up with i Will reduce the springs force. CAUTION: Pusher spring (constant force spring). Caution must be used when working with

REPLACEMENT PARTS:

BOSTITCH replacement parts are recommended. Do not use modified parts or parts which will not give equivalent performance to the original equipment.

ASSEMBLY PROCEDURE FOR SEALS:

When repairing a tool, make sure the internal parts are clean and tubricated. Use Parker 'O'-LUBE or equivalent on all 'O'-rings. Coat each 'O'-ring with 'O'-LUBE before assembling. Use a small amount of oil on all moving surfaces and pivots. After reassembly add a few drops of BOSTITCH Air Tool Lubricant through the air line fitting before testing.

AIR SUPPLY-PRESSURE AND VOLUME:

source for restrictive connectors, swivel fittings, low points containing water and anything else that would prevent full volume flow of air to the tool Before evaluating tool problems for these symptoms, trace the air supply from the tool to the supply pressure reading is high. The results will be slow operation, misteeds or reduced driving power. Restricted air flow will prevent the tool from receiving an adequate volume of air, even though the because of undersize fittings and hoses, or from the effects of dirt and water in the system Air volume is as important as air pressure. The air volume supplied to the tool may be inadequate Fastènera (am in tool

PRO	PROBLEM	CAUSE	CORRECTION
Trigge.	Trigger velve housing leaks eirO-ing out or cracked	Oring out or cracked	Replace C-ring Replace tripper valve assembly
Frame	Fraime/nose leaks air	Loose nose screws	Tighten and recheck Repiace O-ring or gasker
Frame	Frame/cap leaks air	Bumper crzeked/worn	Replace bumper Replace gasket or seal
		Crackedwörn head valve bumperReplace bumper Loose cap screwsTighten and recheck	Replace bumper Tighten and rechack
· Faiture	Faiture to cycle.	Air supply restriction 1	Check air supply equipment Use BOSTITCH Air Tool Lubricant
		Stoken-cylinder cap springReplace cylinder cap spring	Replace Cylinder cap spring
5	act of names alow to suste	Tool dry lacks tubelearing	Disassemble/Check/Lucricate
		Broken cylinder cap spring	Replace cap spring
		Exhaust blocked	Exhaust blocked
		Trigger assembly worr/leaksBeplace frigger assembly Dirt/tar build up on driverDisassemble nose/driver to clean	.Replace trigger assembly .Disassemble noso/driver to clean
		Cylinder sleeve not seated correctly	
		on bottom bumper	Disassemble to correct
) :	Ť.	Air pressure too low	Check air supply equipment
	A CALL CONTRACTOR OF THE PARTY		

Hepiace bumper Disassemble and clean nose and driver

splace quick disconnect fittings splace O-ring, check driver BOSTITCH Air fool Lubricant only recommended tasteners supply system to root ws/replace gasket

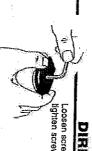
Pry/dirty magezine Use only recommended lasteners
Discontinue using these tasteners ace driver (check piston O-ring) nilubricate use BOSTITCH

COIL NAILERS

wire/plastic collated nall coll	
Wrong slide plate adjustment for	
Broken weided wires in nall ooil	
canisterbottom adjustment	
Fastenets Jam In tool/cardater	astenens jam in tool/car
Broken weld wires in nail coll , Remove coll of nails and use another coll	
comess notion has son consuly being interest bottom to the engine of hear	
Must work treely.	
Check Pawl binding	
Lubricate assembly.	
Fead piston O-rings cracked/worn Replace O-rings/check bumper and spring.	
in hole in lead piston cover	
Skipping fasteners; Intermittent feed position fry	kipping fasteners; inter

DIRECTIONAL EXHAUST DEFLECTOR

ighten screw. _oosen screw as shown. Adjust to desired exhaust direction and



ACCESSORIES AVAILABLE

Remote Control Kit Smooth Contact Arm Assembly, Softfoot C.T. Trip fex Wrench 6mm ocile Grade 271 (.02 oz. ocile Grade 242 (.02 oz. oz. Bositich Air -Tool Lubricant
pint Bositich Air -Tool Lubricant
pint Bositich "Writter-Formula" Air-Tool Lubricant
quart Bositich Air -Tool Lubricant Imper Kit

N79WW/N80SB DRIVER MAINTENANCE INSTRUCTIONS

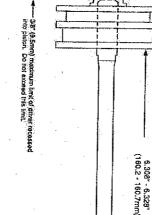
Worn driver causing poor quality or loss of power:

- Wear on the driving tip will affect the nall drive, giving symptoms of bent and incompletely driven nalls, and damaged nall heads.

The driver length may be adjusted to allow the driving tip to be redressed to compensate for wear. Heat and precise measurement are required. Contact a qualified service technician for

The length setting for a new driver is shown below. Measurement is from the bottom face of this adjustment. the main piston.

Note that the measurement from the top of the piston gives the maximum amount the driver may be adjusted to allow redressing. Always extend the driver the minimum required to allow redressing to restore the driving end; several redressings will be possible before this maximum depth is reached.



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NOICE

Lubricación y Operación en Epoca de Frío

Cómo Operar la Herramienta . . .

Diagrama de Operación Básica de la Herramienta Cómo Cargar la Herramienta

Со́то Mantener la Herramienta Neumática

성선

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ocalización de Fallas

INTRODUCCIÓN

leer cuidadosamente y el manual deberá conservarse como referencia. NOTA: Se pueden requerir medidas adicionates de segundad en relación con la operación particular que usted destina a la herramienta. Póngase en contacto con su representante o distribuidor de Bostitich en relación con cualquier pregunta o duda relativa e esta herramienta y su uso. Bostitich, inc., East Greenwich, Phode Island 02818. de seguridad. Las instrucciones sobre instalación, operación y mantenimiento se deben esta herramienta y asegúrese de entender perfectamente las advertencias y precauciones vicio eficiente y seguro, siempre y cuando sean utilizadas correctamente y con cuidado. Como con cualquier herramienta automática de calidad, el mejor rendimiento se obtiene siguiendo las indicaciones del fabricante. Por favor, estudie este manual antes de operar La N79WW/N80SB de Bostitch es una herramienta fabricada con precisión diseñada para trabajos de clavar de alta velocidad y de gran volumen. Estas herramientas darán un ser-

ZOTA: Mantenimiento del Impulsor/Cómo Ajustar el Escape

tas. Bostitch no puede asumir responsabilidad por el rendimiento de un producto si se utilizan nuestras herramientas con sujetadoras o accesorios que no cumplen con los requistos específicos establecidos para ciavos, grapas y accesorios autériticos de Bostitch. Las herramientas de Bostitch han sido fabricadas para proporcionar una excelente satis-facción al cliente y están diseñadas para lograr el máximo rendimiento al ser utilizadas con sujetadores de precisión de Bostitch que han sido fabricados a las mismas normas exac-



GARANTIA LIMITADA

Bostitch, inc. garantiza al comprador original que este producto está libre de defectos de materiales y mano de obra, y concuerda en reparar o reemplazar, a opción de Bostitch, cualquier producto defectuoso durante un (1) año a partir de la fecha de compra. Esta garantía no es transferible. La misma cubre únicamente daños provocados por defectos de materiales o marro de obra y no cubre condiciones o malfuncionamientos como consecuencia de desgaste normal, tuera de nuestro centro regional de reparaciones o de un centro de servicio bajo garantia autorizado. El conjunto de palanca (de alimentación) y trinquete de alimentación se consideran negligen cia, abuso, accidente o intento o realización de reparaciones por parte de personas desgaste normat

ESTA GARANTIA SE OTORGA EN LUGAR DE TODAS LAS DEMAS GARANTIAS EXPLICITAS. CUALQUIER GARANTIA DE COMERCIABILIDAD O IDONEIDAD PARA UN PROPOSITO ESPECIFOCO ESTA LIMITADA A LA DURACION DE LA PRESENTE GARANTIA. BOSTITCH NO SERA RESPONSABLE DE NINGUN DAÑO INCIDENTAL O CONSIGUIENTE.

Para obtener servicio bajo la garantía, envie de vuelta el producto a sus costas junto con el comprobante de compro a un centro regional de reparaciones Bostlich o a un centro de reparaciones bajo garantía autorizado. Puede llamarnos al 1-800-6696 para averiguar la localidad de Esta garantía se limita a las ventas en los Estados Unidos y en Canadá. Algunos estados no admiten limitaciones con respecto a la curación de una garantía implicita, ni la exclusión o limitaciones de daños incidentales o consiguientes; por lo tanto, es posible que las limitaciones o legales específicos, pudiendo ustad tener otros derechos que varían de un estado a otro. exclusiones arriba indicadas no sean aplicables en su caso. Esta garantía le otorga derechos

INSTRUCCIONES DE SEGURIDAD



usada SIEMPRE por el OPERADOR y otros en el área de trabajo al cargar, operar o hacer servicio a esta herramienta. La protección para los cios es necesaria para proteger contra sujetadores voladores y escombros que pueden causar daños severos el cos ocusar daños severos el cos ocusar daños severos el cos ocusar daños de la cargar de la debida protección para los cios sea usada. El equipo protector de los cios debe cumplir con los requisitos del instituto de Normas Nacionales Americano (American National Standards Institute), ANSI Z87.1-1989 y debe proveer protection de frente y de los lados, NOTA: Las gatas de seguridad que no están pro-



PRECAUCIÓN: En algunos enfornes será necesaria protección de seguridad adicional. Por elembro, es posible que el área de trabajo incluyra la exposición: a viveles de trabajo que puedan dariar est circlo: El embredor; y el usuario deben asegurarse de que evalquies protección necesaria pura los cidos sea provista y utilizada por el operador y deniás personas en el área de trabajo. Algunos, enformos requieren el usuario deben asegurarse de protección para la cabeza. Cuando sea necesario, el empleador y el usuario deben asegurarse de que se utili ca protección para la cabeza en control de control de nome de control de nome de control de nome de control de nome de cabeza en control de control de nome de cabeza en control de nome.

tegidas de los lados y las máscaras por sí solas no proveen la debida protección,

SUMINISTRO DE AIRE Y CONEXIONES

A ADVERTENCIA: No utilice exigeno ni gases combustibles o embotellados como fuente de suministro para esta herramienta, ya que la herramienta puede estallar, posiblemente causando lesiones.

A ADVERTERGIA: No utilice fuentes de suministro que potencialmente excedan las 14 Kg/cm2 (13.8 bars) ya que la herramienta puede estaliar, posiblemente causando lesiones.

A ADVERTENCIA: El conseçtor de la herramienta no debe tener presión al desconectarse el suministro de aite. Si se utiliza una conexión equivocada, la herramienta puede permanecen cargada con aite después de ser desconectada y por lo tanto podís impulsar un sujetador aun después de que la línea de aite sea desconectada, posiblemente causando tesiones.

No hale el gatillo ni oprima el brazo de contacto mientras la herramienta esté conectada a suministro de aire ya que la herramienta puede ciclarse, posiblemente causando lesiones.

A ADVERTENCIA: Siernpre desconecte el suministro de aire: 1.) Antes de éfectuar ajustes; 2.) Al hacerle servi cio a la herramienta; 3.) Al despejar un atascamianto; 4.) Cuando la herramienta no esté en uso; 5.) Al mudatee de un átea distinta de trabajo, ya que se puede activar accidentalmente posiblemente causando lesionas.

CARGAR LA HERRAMIENT

A ADVERTENCIA:

ALADYERTEKCIA:

Al cargar la herramienta; 1.) Nunca coloque una mano o cualquier otra parte del cuerpo en el área de descarga del sujetador de la herramienta; 2.) Nunca apunte la herramienta hacia otra persona; 3.) No hale el gatilio ni oprima el disparador ya que se puede activar accidentalmente, posiblemente causando lesiones. OPERACION

A ADVERTENCIA: No mantenga el gatillo halado en las herramientas dei brazo de corracto, salvo durante la operación de engrapado, ya que pueden resultar series lesiones si el disparador accidentalmente se pusiera en contacto con alguien o con algo, causando que se cicle la herramienta, Siempre maneje la herramienta con cuidado. 1.) Nunca participe en juegos nudos con la r ramienta; 2.) viunca haie el gatillo al menos que la nariz esté apuntada hacia el trabajo; 3 Mantenga a las demás personas a una distancia segura de la herramienta mientras la ne ramienta esté en operación ya que se puede activar accidentalmente, causando posibles

A ADVERTENCIA: ADVERTENCIA:

Mantenga las manos y el cuerpo alejados del área de descarga de la herramienta. Una herramienta con brazo de contacto puede rebotar debido a la reculada al impulsar un sujetador y se puede impulsar accidentalmente un segundo sujetador, causando posibles lesiones

Verifique la operación del mecanismo del brazo de contacto trecuentemente. No utilice la herramienta si el brazo no está funcionando correctamente ya que se puede impuisar aco dentalmente otro sujetador. No interfiera con la debida operación del mecanismo del brazo

A ADVERTENCIA: No meta los sujetadores encima de otros sujetadores o teniendo la herramienta demasiado inclinada ya que esto podría causar que los sujetadores se desviaran, y a su vez causaran lasiones.

A ADVERTENCIA: No meta los sujetadores cerca del borde de la pieza de trabajo porque la madera podría separarse, lo que permitiría que el sujetador se desviera y causara lesiones.

MANTENIMIENTO DE LA HERRAMIENTA

Tome nota de las goverteircies en esse maneral a problemáticas. cas y tenga mayor cuidado al evaluar herramientas problemáticas. de las advertencias en este manual al trabajar con herramientas neumati-

A ABVERTENCIA:

ESPECIFICACIONES DE LA HERRAMIENTA N79WW/N80SB l'odos las medidas de tornillos y tuercas son métricas

N79WW/NB0SB	N79WW/NBOSB-	MODELO
N79WW/N80SB-2 Disparo Secuencial 18-3/8" (466 mm) 14" (356 mm)	Disparo por Contacto 18-3/8" (466 mm) 14" (355 mm)	HERRAMIENTA
18-3/8" (466 mm)	18-3/8" (466 mm)	LARGO
	14" (355 mm) 5-7/16" (1	ALTURA
) 5-7/16" (138 mm)	38 mm)	ANCHO
8 lb, 2 onzas (4,0 kg.)	8 lb. 2 onzas (4,0 kg.)	PESO

ESPECIFICACIONES DEL SUJETADOR

CONEXION DE AIRE DE LA HERRAMIENTA: Esta herramienta utiliza una ampira gama de tamaños de clavos en largos desde 50 - 90mm (2" a 3-1/2") y diámetros de espiga de 2,8 - 3,3 mm (0,113° a 0,131°)

PRESIÓN DE OPERACION: 4,9 a 7,0 kg/cm² (4,8 a 6,9 bars). Seleccione la presión de operación cientro de este rango para el mejor rendimiento. NO EXCEDA ESTA PRESIÓN DE OPERACIÓN RECOMENDADA. Esta harramienta usa un enchute macho de 1/4" N.P.T. El diámetro interior debe ser de 7mm (0,275") o mayor. La conexión debe ser capaz de descargar la presión de alre de la herramienta culando es desconectada del suministro de alre. El enclude conector en la manguera de aire debe tener un diámetro Interior de 7mm (0,275") o mayor.

El modeio N79WW/N80SB requiere 7,8 pies cúbicos por minuto de aire libre para operar a rezón de 100 clavos por minuto a 5,6 kg/cm² (5,5 bars) luse la velocidad de clavar verdadera e la cual se operará la herramienía para determinar la cantidad de aire requerida. Por ejemplo, si usa un promedio de 50 clavos por minuto, necesitará el 50% de los 7,8 pies cúbicos por minuto requeridos para 100 clavos por minuto.

OPERACION

DE HERRAMIENTAS BOSTITCH OFRECE DOS TIPOS DE OPERACIÓN EN ESTA SERIE

DISPARO POR CONTACTO:

El procedimiento de operación común para las herramientas de "Disparo por Contacto" es que el operación hace contacto con el objeto a ser clavació para activar el mecanismo de disparo, manteniendo halado el gatillo. Esto permile la rápida colocación de sujetadores en muchos trabajos, tales como entablado, pisos y el ensamble de pateras.

Todas las heramientas neumáticas están sujetas a reculadas al impulsar sujetadores. La herramienta puede brincar, liberando el mecaniemo de disparo, y si se permite que haga contacto nuevamente con la superficie del óbjeto con el gatillo todavía activado (el dedo todavía sosteniendo el gatillo) un segundo sujetador no deseado se impulsará.

DISPARO SECUENCIAL:

El Disparo Secuencial requiere que el operador sostenga la herramienta contra el objeto a ser clavado antes de halar el galillo. Esto permite la précisa y tácil cotocación de sujetadores en muchos trabajos, por ejemplo, en aplicaciones de construcción de marcos, con clavos oblicuos y la construcción de cajones de construcción.

El Disparo Secuencial permite la colocación exacta de los sujetadores sin la posibilidad de que se impulse otro sujetado (abjdo a la reculada, según se describe en "Disparo por Contacto", El Disparo Secuencial tiene una ventaja positiva de seguridad, ya que no impulsará accidentalmente un sujetador si la herramiente entra en contacto con el objeto — u cira cosa — mientras que el operador mantiene halado el galillo.

DENTIFICACION DE MODELO:

Consultar las Instrucciones de Operación en la página 27 antes de usar esta herramienta

DISPARO POR CONTACTO Identificado por el gatillo negro



DISPARO SECUENCIAL

gatillo gris Identificado por el



SUMINISTRO DE AIRE Y CONEXIONES

ADVERTENCIA: No use oxigeno, gasea combustibles o gasea embotalizados como una fuente de suministro para esta herramienta, ya que la herramienta puede estallar, posiblemente causando losiones.

la herramienta cuando sea desconectada de la fuente de suministro Instale un enchule macho en la herramienta que fluya libre y que descargue la presión de aire de

Las mangueras de aire deben tener un mínimo de clasificación de presión de operación de 10,5 Kg/cm2 (10,3 bars) ó 150 porciento de la presión máxima de operación que podría producirse el el sistema de aire. La manguera de suministro debe contener una conexión que provea un "desconectado rápido" del enchufe macho en la herramienta.

FUENTE DE SUMINISTRO:

Use sólo aire comprimido regulado limpio como una fuente de suministro para esta herramienta. NUNCA USE OXÍGENO, GASES COMBUSTIBLES O GASES EMBOTELLADOS COMO UNA FUENTE DE SUMINISTRO PARA ESTA HERRAMIENTA, YA QUE LA HERRAMIENTA PODRÍA

REGULADOR:

la herramienta puede fracturarse o estallar, posiblemente causando lesiones. para controlar la presión de operación para la segura operación de esta herramienta. No conectresta herramienta a una presión de aire que potencialmente exceda 14 Kg/cm2 (13,8 bars), ya que Se requiere un regulador de presión con una presión de operación de 0-8,7 Kg/cm2 (8,6 bars)

PRESIÓN DE OPERACIÓN:

capaz de mantener la presión de operación en la herramienta. Las caídas de presión en el sumínistro de aire pueden reducir la potencia de impulso de la herramienta. Consulte "ESPECIFICA. CIONES DE LA HERHAMIENTA" para fijar la debida presión de operación para la herramienta No exceda una presión de operación de 7,0 Kg/cm2 (6,9 bars) El suministro de aire debe ser

La suctedad y el agua en el suministro de aire son causas principates del desgaste en las herramientas neumáticas,

atascado causará una catda de presión que reducirá el rendimiento de la herramienta. Consulte las instrucciones del labricante para el debido mantenimiento de su filtro. Un filtro sucio y ser mántenido limpio para que sea eficaz en proveer aire comprimido limpio a la harramienta. filtro debe tener una capacidad de flujo adecuada para la instalación en particular. El filtro debe Un filtro puede ayudar a obtener el mejor rendimiento y el desgaste mínimo de la herramienta. El

LUBRICACION

ramienta y el mantenimiento frecuente de la misma. do a través de la conexión de la línea de aire lubricará les piezas internas. Use el Lubricante de Para el mejor rendimiento se requiere una lubricación frequente pero no excesiva. El aceite anadiliguadores de chaque en la herramienta, dando como resultado un mai rendimiento de la hergente o aditivos, ya que estos lubricantes causan el desgaste acelerado de los sellos y los amor-Herramientas de Aire Mobil Velocite #10 de BOSTITCH o un equivalente. No use aceite deter-

Si añade damasiado aceite, se acumulará dentro de la herramienta y se notará en el ciclo de de aire en la herramienta una o dos veces al día. Basta con añadir unas cuantas gotas cada vez. Si no se usa un lubricante de línea de aire, añada aceite cuando se esté usando en la conexión

OPERACIÓN EN LA ÉPOCA DE FRÍO:

en la línea de aire puede congelarse e impedir que la herramienta funcione. Recomendamos el iante permanente (glicol de etlieno) como un lubricante para la época de trío, uso del lubricante de herramientas de aire BOSTITCH WINTER FORMULA o un anti-desconge-Para la operación en la época de frío, cerca o bajo de la temperatura de congelación, la humedad

NOTA: No almacene las herramientas en ambientes frios para impedir que se forme el hielo en las válvulas y los mecanismos de operación de la herramienta, lo cual podría hacer que la

NOTA: Algunos líquidos comerciales secadores de lineas de aire pueden dañar los anillos en "O" compatibilidad. y los seilos — no use estos secadores de aire de baja temperatura sin verificar su

4

do ligeramente la orejeta del pestillo y la piaca deslizante juntas para destrabar. Deslice la placa deslizante contra los

Clerre el cargador: Desengenche el pestillo halan-

NOTA: Use adio ctavos recomendados per Bostitch para uso en las clavado-ras de la serie N78WW/N80SB de

atras para trabar el pastillo. Abra el cargador: Hale la placa deslizante hacia

A ADVERTENCIA:

PROTECCIÓN PARA LOS 0.105 que cumple con las especificaciones de ANS) y que proporciona protección contra particulas voladoras tanto del FRENTE como del LADO debe ser usada SIEMPRE por el OPERADOR y otros en el área de trabajo at cargar, operar o hacerie servicio a esta herramienta. La protección para los ojos es necesaria para proteger contra sujetadoras voladores y escombros que pueden causar daños severos a los ojos.

CÓMO CARGAR EL N79WW/N80SB

El empleador y/o usuario debe asegurar que la debida protección para los ojos sea usada. El equipo protector de los ojos debe cumplir con los requisitos del instituto de Normas Nacionales Americano (American National Standada Institute), ANSI 287.1-1989 y debe proveer protección de frente y de los lados. NGTA: Las gafas de seguridad que no están protegidas de los lados y las máscaras por si solas no proveen la debida protección.

- ADVENTENCIA: PARA IMPEDIR LESIONES ACCIDENTALES:

 Nunca coloque una mano o cualquier otra parte del cuerpo en el área de descarga del sujetador de la herramienta mientras el sumínistro de aire está conectado; Nunca apunte la herramienta hacia otra persona; Nunca participe en Juegos rudos con la herramienta; Nunca hale el gatilio a menos que la nariz está apuntada hacia el trabajo;

hale el gatillo ni oprima el mecanismo de disparo al cargar la herramienta.

AJUSTE DE CONTROL DE FONDO DEL SUJETADOR

ADVERTINICIA: PARA AJUSTAR EL CONTROL DE FONDO

DEL SUJETADOR:

DESCONECTE LA HERRAMIENTA DEL SUMINISTRO DE AIRE ANTES DE INTEN-TAR DESARMAR LAS PIEZAS Y ANTES DE CAMBIAR EL AJUSTE DEL ELEMEN-TO QUE HACE CONTACTO CON ELTRABAJO.

2. Si se requiere el ajuste, desconecte el para determinar si el ajuste es necesario.

3. Si se requiere ajustar el fondo tondo entre el clavo impulsado en el materia) de muestra y la impulsión impulsión, mida la diferencia en el deseada. El control de fondo debe ser

más profunda, el sismento que hace contecto con el trabajo debe ser acortado. alargar el elemento que hace contacto con el trabajo. Para obtener una impulsión ajustado por esa misma diferencie. Para reducir el fondo de impulsión, se debe

Tome note del nivel al cual el control de fondo es ensamblado. Decida el aluste cabaza del clavo encima del trabajo. La harramienta se despacha de fábrica con entre todas las marcas en el frente del control de tondo es igual, 2 mm (0,08°). El alluste de cero daría el avellanado más profundo, y el ajuste de 12 puede dejar la requerido para lograr el cambio de largo determinado en (2) arriba. La distancia

Pera hacer et ajuste, use una llave de 10 mm o un impulsor de luercas para allojar las (2) tuercas de tope elástico en el control de tondo aproximadamente 2 revoluciones. No es necesario quitar las tuercas, Muova la parietra denselado. Verifique de tondo a la altura deseada y epíretra des tuercas. No aprietra demeslado. Verifique que el elemento que hace contacto con el trabajo opere libremente sin atascarse o

 Vuelva e conectar el suministro de aire e impulse unos cuantos sujetadores en una muestra de material para determinar si el ajuste es correcto. Si es necesario sjustar más, desconecte el aire y repita el procedimiento anterior.

La característica de Ajuste de Control de Fonto del Sujetador permile controlar el fondo de Inquisión del clavo, desde a ras con o justamente encima de la superficie de trabajo a avellanado con poca o muota profundidad.

Cargúe fos clavos: Sostenga la clavadora con el cargador inclinado hacia abajo, introduzca barras de clavos.

. Con la presión de ains fijada, impulse unos cuantos sujetadores en una muestra de material representativa

OPERACIÓN DE LA HERRAMIENTA

A ADVERTENCIA:

PROTECCIÓN PARA LOS OJOS que cumple con las especificaciones de ANSI y que proporciona protección contra particulas voladoras tanto del FRENTE como del LADO debe ser usada SIEMPRE por el OPERADOR y otros en el átea de trabajo al cargar oparar o haceria servicio a esta herramienta. La protección para los ojos as necessaria para protegar contra sujotadores voladores y escombros que pueden causar danos severos a los ojos.

El empleador y/o usuario dabe asegurar que la debida protección para los ojos sea usada. El equipo protector de los cjos debe cumplir con los requis tos del instituto de Normas Nacionales Americano (American National Standards Institute), ANSI 287.1-1988 y debe proveer protección de frente y de los lados. NOTA: Les gafas de seguridad que no están protegidas de los lados y las máscaras por si solas no proveen la debida protección. los requis

ANTES DE MANEJAR U OPERAR ESTA HERRAMIENTA:

(; LEA Y ENTIENDA LAS ADVERTENCIAS CONTENIDAS EN ESTE MANUAL. 8. CONSULTE "ESPECIFICACIONES DE LA HERRAMIENTA" EN ESTE MANUAL PARA IDENTIFICAR EL SISTEMA OPERATIVO DE SU HERRAMIENTA.

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Se dispone de tres sistemas operativos para las herramientas neumáticas de BOSTITCH, Estos son;

1. OPERACIÓN POR GATILLO 2. OPERACIÓN DE DISPARO POR CONTACTO 3. OPERACIÓN DE DISPARO SECUENCIAL

OPERACION

OPERACION POR GATILLO

usarse debido a los requisitos de la aplicación. está destinado a ser usado sólo cuando el disparo por contacto o el disparo secuencial no puede Cada vez que se hala el gatillo la herramienta impulsará un sujetador. El modelo operado por gatillo Una herramienta OPERADA POR GATILLO requiere una sola acción para impulsar al sujetador

2. OPERACION DE DISPARO POR CONTACTO:

La herramienta de MODELO DE DISPARO POR CONTACTO incluye un disparador por confacto del objeto que está siendo clavado que opera junto con el gatillo para impulsar un sujetador. Existen dos métodos de operación para impulsar los sujetadores con una herramienta de disparo por contacto.

A. COLOCACIÓN DE UN SOLO SUJETADOR: Para operar la herramienta de esta forma. primero coloque el disparo por contacto en la superficie del objeto SIN HALAR EL GATILLO. Oprima el disparo por contacto hasta que la nariz toque la superficie del objeto y superficie del objeto a clavar usando fuerza extra. En vez de eso, permita que la luego hale el gatillo para impulsar un sujetador. No presione la herramienta contra la herramienta recule de la superficie del objeto para evitar un segundo sujetador indeseado

Quite el dedo del gatillo después de cada operación.

OPERACIÓN RÁPIDA DE SUJETADOR: Para operar la herramienta de esta forma, hale el gatillo con la herramienta separada del objeto a ser clavado. Para impulsar los sujetadores, goipee ligeramente la nariz de la herramienta sobre la superficie del objeto aplicando un movimiento de rebote. Cada vez que oprima el disparador por contacto, se impulsará un sujetacor,

A ADVERTENCIA:

A ADVERTENCIA:

El operador no debe sostener el gatillo halado en las herramientas de disparo por contacto, salvo durante la operación de engrapado, ya que pueden resultar serías lesiones si el disparador accidentalmente se pusiora en contacto con alguien o con algo, causando que se cicle la herramienta.

Mantenga las manos y el cuerpo alejados del área de descarga de la herramienta. Una herramienta de disparo por contacto puede rebotar debido a la reculada al impulsar un sujetador y se puede impulsar accidentalmente un segundo sujetador, causando posibles lesiones.

3. OPERACIÓN DE DISPARO SECUENCIAL:

GATILLO. Oprima el disparo por contacto y luego hale el gatillo para impulsar un sujetador. El MODELO DE OPERACION SECUENCIAL incluye un disparador por contacto del objeto que ramienta impuisará un sujetador cada vez que se oprima el gatillo. Si se permite que el disparo por contacto deje la superficie del objeto, la secuencia descrita anteriormente tendrá que ser Mientras el disparo por contacto esté en contacto con el objeto y se mantiene oprimido, secuencial, primero coloque el disparo por contacto en la superficie del objeto SIN HALAR EL funciona junto con el gattilo para impulsar un sujetador. Para operar una herramienta de disparo repetida para impulsar otro sujetador. la her-

accidentalmente un sujetador si se permite que la nariz de la herramienta accidentalmente entre en contacto con la superficie del objeto — u otra cosa — mientras el dedo mantiene halado el gatillo. El Modelo de Disparo Secuencial provee una ventaja positiva de seguridad ya que no impuisara

VERIFICACIÓN DE LA OPERACIÓN DE LA HERRAMIÉNTA:

(PRECAUCIÓN: QUITE TODOS LOS SUJETADORES DE LA HERRAMIENTA ANTES DE EFECTUAR LA VENIFICACIÓN DE LA OPERACIÓN DE LA HERRAMIENTAI

. HERRAMIENTA OPERADA POR GATILLO

- Con el dedo alejado del gatillo, sostenga la herramienta tomándola firmemente por la manija
- Coloque la nariz de la herramienta contra la superficie del trabajo. Hale del gatillo para impulsar. Suelte el gatillo para completar el olcio.
- JPRECAUCIÓN: SE ACTIVARÁ LA HERRAMIENTA CADA VEZ QUE SE HALE EL GATILLO!

2. OPERACIÓN DE DISPARO POR CONTACTO:

- Apriete el disparador de contacto contra la superficie de trabajo, sin tocar el gatillo LA HERRAMIENTA NO DEBE EFECTUAR SU CICLO.
- Sostenga la herramienta alejada de la superficie de trabajo, y hale el gatilio LA HERRAMIENTA NO DEBE EFECTUAR SU CICLO.

œ

- ņ Con la herramienta alejada de la superficie de trabajo, hale el gatilito y apriete el disparador de LA HERRAMIENTA SÍ DEBE EFECTUAR SU CICLO, contacto contra la superficie de trabajo.
- Con el dedo alejado del galllo, apriete el disparador de contacto contra la superficie de trabajo LA HERRAMIENTA SÍ DEBE EFECTUAR SU CICLO.

- 3. OPERACION POR DISPARO SECUENCIAL: ≻ Presione el disparador de contacto contra la superficie de trabajo, sin tocar el gatillo LA HERRAMIENTA NO DEBE EFECTUAR SU CICLO.
- Sostenga la herramienta alejada de ta superficie de trabajo, y hate el gatilio LA HERRAMIENTA NO DEBE EFECTUAR SU CICLO.
- Q Hale el gatillo y presione el disparador de contecto contra la superficie de trabajo. LA HERRAMIENTA NO DEBE EFECTUAR SU CICLO.
- Ō Con el dedo alejado del gatillo, presione el disparador de contacto contra la superficie de trabajo

LA HERRAMIENTA SÍ DEBE EFECTUAR SU CICLO.

ADEMÁS DE LAS OTRAS ADVERTENCIAS CONTENIDAS EN ESTE MANUAL, OBSERVE LO SIGUIENTE PARA UNA OPERACIÓN SEGURA.

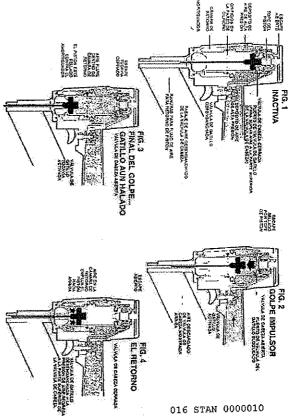
- Utilice la herramienta neumética de BOSTITCH únicamente para impulsar sujetadores.
- Jamés utilica esta herramienta de manera que pudiera causar que un sujetador sea dirigido hacia ustad mismo u otras personas dentro del área de trabajo.
- No utilice la herramienta como un martilio
- Siempre cargue la herramienta por la manija. Jamés cargue la herramienta por la
- No modifique o altere esta herramienta de su diseño original o función sin la aprobación de BOSTITCH, INC.
- Siempre esté consciente de que el mal trato y manejo inadecuado de esta herramienta puede originar lesiones para usted y los demás.

34. A.

- Jamás sujete o ate con cinta el gatillo o el disperador de contacto en una posición
- Jamás deje una herramienta sola con la manguera de aire conectada
- NOTA: No sige usando una herramienta que tenga una fuga de aire o que no funciona Notifique a su representante de Bostitch más cercano si su herramienta sigue teniendo problemas de funcionamiento.

OPERACION BASICA DE LA HERRAMIENTA

ocurren cuando se hace funcionar la herramienta para imputsar un sujetador: operado por aire comprimido. Los siguientes dibujos muestran los cuatro ciclos funcionales que Las herramientas neumáticas de BOSTITCH son activadas mediante un diseño de pistón único



MANTENIMIENTO DE LA HERRAMIENTA NEUMÁTICA

PRECAUCION:

A ADVERTENCIA:

Al trabajar con herramientas neumáticas, tenga presente las advertencias que se hacen en este manual, y sea particularmente cuidadoso al evaluar herramientas problematicas.

El resorte de empuje (resorte de fuerza constante); Se debe tener cuidado al trabajar con el ensambaje de resorte. El resorte está enrollado sirededor de, pero no sujetado a, un enrollador. Si el resorte se extiende más altá de su lergo, la punta se desprenderá del enrollador. Si el resorte se enrollara bruscamente, y puede pellizcar su mano. Además, los bordes del resorte son muy deligados y podrían cortario. Se debe tener cuidado para asegurar que ho se forman cocas permanentes en el resorte, ya que esto reducirá la fuerza del resorte.

brinden el mismo rendimiento que el equipo original. Se recomienda partes de reemplazo de BOSTITCH. No utilice partes modificadas ni partes que no

PROCEDIMIENTO DE ENSAMBLE PARA LOS SELLOS

Neumaticas de BOSTITCH mediante la conexión de la línea de aire, antes de probar la herramien otes móvites. Después del rearmado, añada unas cuantas gotas del Lubricante para Herramientas Al reparar una herramienta, asegúrese de que las partes internas estén limpias y lubricadas. Utilice Parker "O" . LUBE o su equivalente en todos los anillos en "O" . Cubra cada anillo en "O" con "O" co -UBE antes de ensamblar. Utilice una cantidad pequeña de aceite en todas las superficies y piv-

PRESIÓN Y VOLUMEN DEL SUMINISTRO DE AIRE

suministro de aire desde la herramienta hasta la fuente de suministro para ver si hay conexiones da. Antes de evaluar los problemas de la herramienta en busca de estos síntomas, siga la pista del que la herramienta reciba un volumen de aire adecuado, aunque la lectura de la presión sea alta. mal, o debido a los efectos de polvo y agua dentro del sistema. Un flujo de aire restringido impedirá herramienta puede ser inadecuado debido a conexiones y mangueras más pequeñas que lo nor-El volumen de alre es tan importante como la presión del aire. El volumen de aire suministrado a la restrictivas, accesorios giratorios, puntos bajos que contienen agua y cualquier otra cosa que evi-Los resultados serán una operación lenta, ta mela alimentación o una potencia impulsadora reducitaria un flujo de aire de volumen compteto a la herramienta.

Sujetadores que seitan. Atimentación intermitant

PROBLEMA DIAGNÓSTICO DE FALLA CAUSA

fuga de sim en al armazón/lapón,	tiene fuga de eire, Fuga de sira en al ermezón/nertz.	válvula disparadora. Vástago de la vájvola disparadora

No desempant su cicio

Faite de potencia Desempeña su ciclo (entemente

cacapa pioquasdo

Semorte de la tapa del diábido foto. Anlifos en Crestos comados o rejados demamiente soca, necesta fubricación Hesorte de la lapa del cilindro roto,

ambiaje del galillo desgaatadokiene tugas mutación de polydistiquitran en imputaci, on de aira demasiado beja, sings det cilindro no esté saemeda Ismente en el amortiguador de abejo

eramients seca, necesits lubdración. illo en O de pistón desgastado, ncción de alraflujo de alte hadecuerio a travis Resquisio y tapón de desconectado rápido ili ani poivo en et cenal del impulsor. iguadot desgastado,

brnillos flojos en la nariz del cargador. stadores de temaño aquivocado. sujetadoras sen demastado cortos La herramiseta,

Resorte de empoje dahedo; Baja presión do ako;

villo en O de la valvuta del disperador cortado! aquetadura de la tapa de cabeza con higas

Sujetadores de ternaño equivocado. Sujetadores dobiedos. Cargador desgastado: Carpal del Imputasdor desgastado. Sangador saco/sucio.

Misel foliation feeting nilos fojos en el carpador/la nonz

CLAVADORAS DE BOBINA

rapeccione el trinquete para ver al so ateaca visas en O del pistón allmentador quebrados riston alimentador esco.

Parte Interfor del cargedor no está fijada

Alembres soldados rotos en rollo del sisvo. Ajuste equivocado de placa desilzanta para rollo de claves de siumbre/plástico Sujetadoras de temaño equivocado pera la hemamienta Alembres de soldadurs rotos en rozo del cisvo

Revise di trinquete y al rascrie de la puerta, Deben funcionar libromente. Ajuste ia parte inforior dej cargador Pero el largo de cisyos que se está utilizando

CORRECCIÓN

Anillo en O cortado o rajado

utilica en Ofsettos cortados o rajados:

mortiguador rajadordaugastado.

riiguedor de la veltrois de cabeza rejaçoios

lios de tapa fojos.

tilo en Ofempaquetadura cortada o rejada

Reemplazar el anillo en O.

Reemplazar al entre en O o empaqueractuo Apriate y watfique quevaments faemplazar el amortiguados lazar el amoniguador

Milita et Lubricante para Herramientas Noumáticas de BOSTITCH ienkambler?Verilcapf_ubticar stripiszar el resorte de la tapa del cilindro mplazar el resorte de la lepa. mplazar los enlikos en O/seltos rtiguador, resorte de la

Favor notar que la medición desde la parte superior del pistón indica el ajuste máximo que se la puede hacer al impulsor para permitir la rectificación. Siempre extienda el impulsor lo mínimo requerido para permitir la rectificación a fin de restaurar la punta de impulsión; es postible que sea necesario efectuar varias rectificaciones hasta que se logre la profundidad máxima.

ntios en O de la valvula de cabeza des

libes et Lubricants pars Hetternientas sumáticas de BOSTITOH. emplazar ei amontguador. ensembler y ilmpier in narkt y ol impideol CHEZIN TOR RECEIVED ONCE ON CONCENTRATION histori di arabo en O, verificar di Impulso

No use estos sujetadorea más.

Reempiszar antilo en O/seliga

Un impulsor desgastado causará mala calidad y pérdida de potencia:

El targo del impulsor puede ser ajustado para permitir que la punta de impulsión sea rectificada para compensar por el desgaste. Se requieren calor y una medición precisa. Póngase en contacto con un técnico de servicio calificado para este ajuste. El desgaste en la punta de Impulsión afectará la impulsión del ciavo, produciendo síntomas de 🌜 ciavos doblados o no impulsados por completo, y cabezas de ciavos dañadas.

El ajuste de largo para un nuevo impulsor se muestra a continuación. La medición se hace desde la cara inferior del pistón principal.

INSTRUCCIONES DE MANTENIMIENTO DEL IMPULSOR N79WW/N80SB

Utilice et Lubdonne para Herramientas Neuméticae de BOSTITCH. ionete y varifique mavyantembe. Ionilique el equipa de suministro de site.

que el equipo de suministro de aixo

tise adio los sujeindones recomendados Apriete todos tos tornillos.

Reemplazai et Impulaor. (Vertificar et amiljo en O del platón). Apriete de tornitos/Rosmplezer ia Reemplazer et anillo en O. use abloads sujetadores recomendados

Use adts los aujatedores recomendados. No use estos sujetadores más. Aprilate todos los terrillos. Resmplezar et cargador. Paemplezar la narit/Verillusi la puerta.

Agregue et Litaricante para Homardenias Neumaticas de BOSTITCH en el officio de la tapa del piston libromado.

Afunte las clevijas dei ajuntador para el rolo de criavos de alambra/plástico. ulimentado; Paompiazar los anillos en Civistificar el attendución y el recota Luistear el entrembaje Live solo los exjetadores recomendados. Ventidos el ajuste del fondo del cargudos.

Desensamblar para corregir. plazar di ensamblaja del gatillo.

fique el sistema de aumenistro de aire herramienta,

DEFLECTOR DE ESCAPE DIRECCIONAL



deseada y apriete el tornillo. Attoje el tornillo según se muestra. Ajuste a la dirección de escape

INTRODUCTION

Le NYOWW/N8OSB de Bostitch est un outil construit avec précision; conçu pour réaliser un traveil rapide à debit maximum. Ces cloueurs sont faits pour assurer un service efficace et durable, à condition d'être utilisés avec un minimum d'attention et dans des conditions normales d'utilisation. Comme pour tout autre appareil pneumatique, les consignes du fabricant doivent être impérativement sulvies, afin d'obtenir de bonnes performances de ce matériel. Lire attentivement le présent manuel avant d'utiliser le cloueur en prétant une attention toute particulière aux consignes de sécurifé. Lire iss instructions concernant l'installation, le fonctionnement et l'entretien de l'appareil. REMARQUE: des mesures supplémentaites de sécurité peuvent être requises seion l'usage destiné. Pour toute question concernant l'outif ou son usage, veuillez contacter votre représentant ou votre concession-naire Bostitch, Bostitch, Inc., East Greenwich, Rhode Island 02818.

OMMAIRI

Entretten de l'enfonceur / réglage de l'échappement.	Problèmes de fonctionnement	Schéma de fonctionnement de base de l'appareil.	Fonctionnement de l'apparell	Chargement de l'appareil	Airhentation en air comprimé : Raccordement, Tuyaux , Filtres, Régulateurs25	Caractéristiques de l'appareit; Consommation d'air et pression d'utilisation
de l'échappement	**************************************	se de l'appareil.		S-ITOIQ.	ccordement, Tuyaux , Filtres	sommation d'air et pression
31					s, Régulateurs25	d'utilisation24

REMARQUE

Les outils Bostitch sont fabriqués dans le but d'assurer une totale satisfaction et sont conçus pour atteindre un rendement maximal lorsqu'ils sont utilisés avec des éléments d'assemblage épondant aux mêmes standards de qualité. Bostitch ne peut assumer la responsabilité du fonctionnement d'un produit, lorsqu'il eat utiligé avec des accessoires et éléments d'assemblage qui ne satisfont pas aux exigences spécifiques en vigueur pour les accessoires, agrates et clous garantis d'origine BOSTITCH.

BSTITES!

GARANTIE LIMITÉE

La société Bostich inc. garantit à l'achateur original un produit exempt de détaut matériel ou de main-d'oeuvre et elle accepte de réparer ou remplacer (à son crox) tout produit défectueux cans un détait d'une arnôte à complère de la date d'aconta. Cette garantie n'est pas transférable. Elle courre donc pas les dommages attribuables à des défauts de matériau ou de main-d'oeuvre. Elle maie, une régitigance, un usage abusti, un accident ou une réparation au de de dénérée par une personne ne travallant pas pour noire centre régional de réparation ou un autre centre de réparation avoir à des autres comme des pièces sujettes à une usure normale.

CETTE GARANTIE A PRÉSÉANCE SUR TOUTE AUTRE GARANTIE EXPRESSE, TOUTE GARANTIE, DE COMMERCIALISATION OU DE CONVENANCE À UN USAGE SPÉCIFIQUE EST LIMITÉE À LA DURÉE DE CETTE GARANTIE, LA SOCIÉTÉ BOSTITCH NE PEUT ÉTRE TENUE RESPONSABLE DE DOMMAGES INDIRECTS.

Cette garantie s'applique uniquement aux ventes réalisées aux États-Unis et au Canada. Queiques États et provinces interdisent les limitations affectant la durée d'une garantie implicite, de même que l'exclusion ou la limitation des dommages indirects couverts. Il est donc possible que les limitations ou exclusions ci-dessus ne s'appliquent pas à vous. Cette garantie vous accorde des droits juridiques précis. Vous pouvez également bénéficier d'autres droits, selon votre lieu de résidence.

Pour faire réparer un produit sous garantle, envoyez-le avec la preuve d'achat, en port payé, au centre régional de réparation Bostiton ou à un centre de réparation agréé. Pour connaître les coordonnées des centres autorisés près de chez vous, composez le 1-800-556-6696.

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CONSIGNES DE SÉCURITE



PROTECTION DES YEUX: Elle doit répondre aux spécifications ANSI et offir une protection contre les particules projetées, à la fois FRONTALE at LATERALE. Cette protection devra toujours être portée par l'opérateur et les autres membres du personnel qui travaillent dans le lieu de chargement, de fonctionnement et d'entretien d'appareil. La protection oculaire est exigée pour protéger contre la projection d'éléments d'assemblage et de débris, qui pourraient causer de sévères blessures aux vieux.

L'employeur ét/eu l'utilisateur doivent s'assurer du port d'une protection oculaire adéquate. L'équipement de protection oculaire doit être conforme aux normes ANSI 287.1-1989 (de l'Institut National Américain des Normes), et offrir une protection à le fois frontate et latérale. REMARQUE : les lurieites de protection saris écrans latéraix et les masques de protection portés beuts, n'offrent pas une protection suffisante.

ATTENTION: Des mesures de séguirlé supplémentaires seront nécessaires dans

ATTENTION: Des mesures de sécurité supplémentaires seront nécessaires dans certains environnements, Par exemple, la zone de travail peut comporter une exposition à des niveaux de bruit pouvant conduiré à un dommage auditit. L'employeur et utilitisateur doivent alors s'assurer grunne protection auditive adéquate et offerte et utilitisateur doivent alors s'assurer grunne protection auditive adéquate et offerte et utilitisateur doivent alors de travail. Personne se frouvant dans la zone de travail. Certains environnements de travail nécessitent geur d'un casque de sécurité. Dans ce cas, l'employeur et l'utilisateur doivent d'assurer grun casque de sécurité concorne à a norme ANS) ZB9.1 1988 est toujours porté.

ALIMENTATION EN AIR COMPRIMÉ ET RACCORDEMENT

ATTENTION: L'oxygène ou les gaz combusibles ne doivent en aucun cas être employés comme source d'énergie, sachant que l'outil peut exploser et provoquer des blessures.

ATTENTION: (1/3,6 bars), car l'outil peut éclater et causer des biessures.

AATTENTION:

AATTENTION:

L'appareil ne doit pas rester sous pression lorsqu'il est déconnecté de la source d'air.

Si un mauvais raccord est utilisé, l'outil peut demeurer sous pression même après le désaccouplement, et de ce fait, peut éjecter un élément d'assemblage et causer des

ATTENTION:

Ne pas appuyer sur la détente ou abaisser le mécanisme de contact tant que l'outil est connecté à la source d'air, car celui-ci peut se déclencher et donc provoquer des

ATTENTION: Toujours désaccoupler l'appareil de sa source c'énergis : 1) avant tout réglage; 2) lors de l'entretien; 3) lors d'un désanrayage; 4) à la fin de l'utilisation; 5) lors du déplacement vars une nouvelle zone de travail, car un déclenchement accidentel peut se produire et causer des blessures.

blessures.

CHARGEMENT DE L'APPAREIL

ARTTENTION: Lors du chargement de l'appareil : 1) Ne jamais placer la main ou toute autre partie du corps dans la direction de projection de l'élément d'assemblage de l'outil; 2) Ne jamais pointer l'outil vers quelqu'un; 3) Ne pas presser sur la détente ou appuyer sur le palpeur de surface, car un déclenchement accidentel peut se produire et causer des blessures.

FONCTIONNEMENT

AATTENTION: Manipuler l'appareil avec précaution : 1) Ne pas jouer ou chahuter avec l'appareil; 2) Ne jamais appuyer sur la détente tant que le nez de l'appareil n'est pas dirigé vers la pièce à assembler; 3) Tenir les autres personnes à distance raisonnable de l'outil fors de l'utilisation de calul-ci, car un déclenchement accidentel peut se produire et causer des blessures.

ATTENTION:

Ne pas maintenir la détente pressée sur un outil possédant un mécanisme de conlact, seuf pendant le travail d'assemblage, car un accident grave pourrait se produire
si le palpeur de surface entrait con chact avec un objet ou une personne et entrainait le déchenchement de l'outil.

ATTENTION: de l'appareil est connecté à la source d'énergle, éloigner les mains et le corps de l'orlice d'éjection. Un outil à mécanisme de contact peut «rebondir» après l'éjection d'un élément d'assemblage, let un second élément d'assemblage peut accidentellement ètre éjecté.

ATTENTION: Vérifier régulièrement le mécanisme de contact. Ne pas utiliser un appareil dont le mécanisme de contact est inopérant, un accident peut en résulter. Ne pas changer le mode opératoire du mécanisme de contact.

ATTENTION:

Ne pas enfoncer des attaches lorsque l'ouil est trop penché ou par-dessus d'autres attaches car cela pourrait faire dévier ces demières et entraîner des blessures.

AATTENTION:

Ne pas enfoncer des attaches près du bord de la pièce car le bois pourrait se fendre et faire dévier les attaches, entraînant ainsi des blessures.

ENTRETIEN DE L'APPAREIL

AATTENTION: Lors de l'utilisation d'un outil fonctionnant sous-pression, lire les avertissements du manuel et user d'extrêmes précautions jors de la découverte d'un problème.

CARACTÉRISTIQUES DU N79WW/N80SB

Toutes les mesures des vis et des boulons sont dans le système métrique.

NIWAWEZN	N/AAABZN	MODELE
8053-2 Au co	80SB-1 A	DE
up par caup	la volee	CONTACT
18-3/8 po (466 mm) 14 p	18-3/8 po (466	LOHOUEL
mm) 14 po (mm) 14 po (35	HAU
l out	355 mm) (5.7/	HAUTEUR
лт) 5-7/16 po (138 mm) £	16 00 (138 mm	LARGEUR
) B lb. 2 oz (4,0	2 1 0 1 1	20108

CARACTÉRISTIQUES DES ÉLÉMENTS D'ASSEMBLAGE : Cet outil utilise une grande variété de tailles de clous de longueur aliant de 50 à 90 mm (2 à 3,5 po) et de diamètre de tige aliant de 2,8 à 3,3 mm (0,113 à 0,131 po)

RACCORDEMENTS À L'AIR:
Cet ouili utilise un raccord de 1/4 N.P.T. Son diamètre intérieur doit être de 7 mm (0,275 po) ou plus.
Lors du désaccouplement de la source d'air, le raccord doit permettre rapidement la mise à l'atmosphère de toute pression résiduelle. Le collet de connexion du tuyau d'air doit avoir un diamètre
intérieur de 7 mm (0,275 po) ou plus. PRESSION D'UTILISATION :

4,9 à 7,0 kg/cm2 (4,8 bars à 6,9 bars). Régler la pression d'air en suivant ces recommandations pour obtenir le meilleur randement possible. NE PAS DÉPASSER LA PRESSION MAXIMALE RECOMMANDEE

CONSOMMATION D'AIR:

Le NYPWW/N805B consomme 220,8 I d'air détendu par minute (7,8 pieds pubes/mn) lorsqu'il fonctionne à la cadence de 100 clous par minute, pour une pression d'utilisation de 5,6 kg/cm2 (5,5 bars).

On déterminera la quantité d'air en fonction de la cadence utilisée, par exemple, si la cadence
moyenne est de 50 cjous/minute, l'appareil aura besoin de 50% des 220,8 I d'air par minute, qui
représente la quantité d'air pour une cadence de 100 clous/minute. OPERATION BOSTITCH OFFRE DEUX TYPES DE SYSTÈME DE DÉCLENCHEMENT POUR CETTE SÉRIE

Le mode opératoire ordinaire pour le système « à la volée » consiste pour l'opérateur à placer le nez de l'appareil sur la surface de travail pour activer l'élément palpeur tout en appuyant sur la disense, antonopart ainsi un élément d'assemblage chaque dois que la surface de travail entre en contact avec le paipeur. Cette méthode permet un travail de fixation répide pour beaucoup de trovaux lets que pose de revétements, et fabrication de plate-formes et de placites. Tous les appareils pneumatiques sont sujets à un récul lors de l'élément d'assemblage. L'outil peut donc rebondir, et métité accidentellement (foutil en contact avec la surface de travail, ce qui pour product avec la surface de travail, ce qui ainer la sortie d'un deuxième élément d'assemblage.

AU COUP-PAR-COUP (S.T)

L'appareil au coup-par-coup requiert que l'opérateur maintienne foutil en contect avec la sur-face de travail evant d'appuyer sur la détente. Cec vend le placement précis de l'élément d'assemblage plus faitle, par exemple dans le cas d'encadrement, de clouage de pieds et de labrication de caissés. L'appareil au coup-par-coup permet un placement précis de l'élément d'assemblage sans le risque d'élécter un deuxième élément par accident lors du recul, comme celà est le cas pour le dispositif à le volés.

Le dispositif au coup-par-coup possède une sécurité supplémentaire puisque même si l'outil est contact avec la surface de travail, ou tout autre chose, l'opérateur ne court pas le risque d'éjecter un deuxième élément même si le doigt est sur la détente

DENTIFICATION DU MODELE

Se référer au mode de fonctionnement à la page 17 avant de commencer à utiliser l'outil

Identifié par une détente de couleur VOLÉE VOLÉE





ldentifié par une détente argentée SYSTÈME AU COUP-PAR-COUP

ALIMENTATION EN AIR COMPRIMÉ ET RACCORDEMENT

ATTENTION: Cas être employés comme source d'énergie, car ils peuvent exploser et provoquer des blessures.

60

installer le raccord mâle sur l'appareil. Lors du désaccouplement de la source d'énergie, le rac-cord mâle doit permettre rapidement la mise à l'atmosphère de toute pression résiduelle.

cord male de l'appareil. tuyau d'alimentation doit contenir un raccord permettant « un désaccouplement rapide » du rac-10,5 Kg/cm2 (10,3 bars), ou 150% de la pression pouvant être produite pour l'installation. Le Les tuyaux d'air comprimé doivent résister à une pression d'utilisation minimale constante

ALIMENTATION EN AIR COMPRIME

Les appareils doivent être alimentés evec de l'air propre et sec. L'OXYGÈNE, LES GAZ COMBUSTIBLES OU LES BOUTEILLES DE GAZ NE DOIVENT EN AUCUN CAS ÊTRE EMPLOYÉS COMME SOURCE D'ÉNERGIE CAR ILS PÉUVENT EXPLOSER.

teur de pression pouvant excéder 14 Kg/cm2 (13,8 bars) car l'outil pourrait se fracturer ou se Un régulateur de pression fonctionnent à des pressions de 0 à 8,7 Kg/cm2 (8,6 bars) est nécessaire pour contrôler la pression d'utilisation du cloueur. Ne pas accoupter cet appareit à un régula rompre, et causer des blessures.

PRESSION D'UTILISATION :

sion dans la source d'alimentation entraînera une balsse de la force d'éjection de l'outil. Voir la rubrique «caractéristiques de l'apparei» pour le réglage de la pression de fonctionnement Ne pas excéder une pression d'utilisation de 7,0 Kg/cm2 (6,9 bars). La source d'alimentation en air doit être capable de maintenir la pression de fonctionnement au niveau. Une baisse de presadéquate,

La principale cause d'usure des apparells pneumatiques est un air sale et humide. Un filtre est donc indispensable pour obtenir le meilleur rendement et une usure minimale du pistolet. Le filtre devra avoir une capacité de l'itrage adéquate au volume d'air consommé par l'appareil. Le filtre doit être propre pour alimenter le pistolet en air comprimé propre. Consulter les instructions du pression et par vois de conséquence, une diminution du rendement de l'appareil labricant concernant l'entretien du filtre. Un filtre sale ou bouché peut provoquer des baisses de

LUBRIFICATION

ils pneumatiques Mobil Velocite n° 10 de BOSTITCH ou un équivalent. Ne pas utiliser une huile détergente ou des additifs qui pourraient accélérer l'usure des joints toriques et des amortisseurs du cloueur et par conséquent entraîner une baisse du rendement et des réparations plus en air comprimé afin d'assurer la lubrification des éléments internes. Utiliser le lubriflant pour outrégulièrement, mais sans excès. Appliquer quelques gouttes d'huite au niveau du raccordement Pour obtenir les meilleures performances de votre cloueur, it est indispensable de le jubrifier

Certains lubrificateurs peuvent également être placés directement sur le cloueur. Si un lubrificateur n'est pas installe, il est important d'injecter de l'huile dans le circuit d'air, une ou plusieurs fois par jour. Ne mettre que quelques gouttes à la fois. Une lubrification excessive entraînera une accumulation d'huile dans l'appareil et particulièrement au niveau de l'échappement.

UTILISATION PAR TEMPS FROID

Par temps troid, lorsque la température est proche ou intérieure au point de congélation, l'eau qui Nous recommandons d'utiliser une huile ou un liquide de lubrification adapte. s'est condensée dans les tuyaux d'alimentation d'air gèle, et le cloueur perd de son efficacité

REMARQUE : Nous conseillens de ne pas stocker le cloueur dans un environnement froid sous peine de sérieux problèmes de fonctionnement

REMARQUE : Ne pas utiliser d'huiles ou produits spéciaux, prévus pour d'autres emplois que la lubrification des matériels pneumatiques, ils risqueraient de détruire les garnitures et les joints toriques.

erque : N'utilies que les ctoûs mmendés per Bostitch pour les eurs de Je série N79VYV/N805B; ir le poussoir pour désengager, trea glisser le poussoir contre les Chargez les clous : Tenez le cloueur en maintenant le magasin penché vers le bas; insérez une cartouche de clous.

CHARGEMENT DU N79WW/N80SB

PROTECTION DES YEUX. Elle doit répondre aux spécifications ANSI et offrir une protection contre les particules projetées, à la fois FRONTALE et LATERALE. Cette protection devra TOULOURS être portée par l'opérateur et les autres membres du personnel qui travaillent dans le ileu de chargement, de fonctionnement et d'entretien de l'appàreil. La protection oculaire est avigée pour protèger contre la projection dieléments d'essemblage et de débris, qui pourraient causer de sévères plessures aux yeux.

L'employeur et/ou l'utilisateur doivent é assurer du port d'une protection oculaire adéquate. L'équipement de protection porter doit être conforme aux normes ANSI 287.1-1989 (de l'Institut National Américain des Normes), et offrir une protection à la fois frontais et la stardate. REMARQUE : les funettes de protection sans scrans latéraux et les masques de protection portés seuls, n'offrent pas une protection suffisante.

POUR PRÉVENIR UN ACCIDENT

• Ne jamais placer la main ou goute autre pertie du corps dans le zone d'éjection des cious lorsque l'outil est reilé à la source d'air.

• Ne jamais pointer le cloueur vers quelqu'un.

• Ne jamais jouer avec l'outil.

A ATTENTION:

Ne jamais pointer le cloueur vers quelqu'un. Ne jamais jouer avec l'outit. Ne jamais appuyer sur la détente si le nez n'est pas dirigé vers le plan de travail.

Toujours menier l'outil avec précautions. Ne pas appuyer sur la détants ou presser sur l'élément paipeur lors du chargement de l'outil.

D'ASSEMBLAGE PROFONDEUR DE L'ELEMENT REGLAGE DE LA COMMANDE DE



Ouvrez le magasin : Tirer le poussoir vers l'arrière

Le réglage de cette commande parmet de contrôler la pro-fondeur d'éjection du clou, d'aputs le clouage à flaur, juste au dessus de la surface de traveil jusqu'au frasage peu profond ou protond.

ATTENTION:

 Après avoir réglé la pression d'air, éjecter quelques éléments d'assemblage dans des PROFONDEUR DE L'ÉLÉMENT : POUR RÉGLER LA COMMANDE DE

Si un réglage est nécessaire, déconnecter la source d'eir.
 Si un réglage de la protondeur d'éjection.

decider si un réglage est nécessaire. échantillons de matériau équivalent afin de

profondeur d'éjection, félément de contact de surface doit être augmenté. Pour obtenir une plus grande profondeur d'éjection, l'élément de contact de sur l'échamillon et la profondeur d'éjection souhaitée, La commande de profondaur doit être changée de façon équivalente. Pour réduire la reconstruction changée de façon équivalente. Pour réduire la surface doit être raccourci entre la profondeur de l'élément éjecté

 Noter le niveau auquel se trouve la commande de profondeur lors du montage. Décider ensuite du réglage nécessaire pour atteindre le changement de protondeur déterminée ci-dessus en (2). Les tails inscrits sur la partie antifeluer de la commande de protondeur son espacés de façon égale, tous les 2 mm (0,08 po). Zéro corespondra au plus protond fraisage et 12 peut laisser la tête du clou au dessus du matériau. L'outil sort d'usine

3. Fermez le magasin : Reidchez le verrou en trant légère

ment aur la languette du verrou et

Pour effectuer le réglage, utiliser une cié de 10 mm ou une cié à écrous pour Déplacer la partie inférieure de la commande de profondeur jusqu'à la désserrer les (2) écrous d'arrêt sur la commande de profondeur en effectuant deux révolutions complètes. Il n'est pas nécessaire de retirer ces écrous, hauteur désirée et serrer les écrous. Ne pas trop serrer, Vérifier que l'élément

dans un matériau d'échantiton pour déterminer si le réglage est correct. Si un niveau réglage est nécessaire, déconnecter à nouveeu la source d'air et Reconnecter à la source d'air et éjecter quelques éléments d'assemblage de contact peut opérar librament sans grippage ou biocage.

A ATTENTION:

PROTECTION DES YEUX: Elle doit répondre aux appetitentens ANSI et offrir une protection contre les particules projetées, à la fois FRONTALE et LATERALE. Cette protection devra TOUJOURS être portée par l'opérateur et les autres membres du personnel qui travaillent dans le lieu de chargement, de fonctionnement et d'entretien de l'appareil. La protection occulaire est exigée pour protéger contre la projection d'éléments d'assemblage et de débris, qui pourraient causer de sévères bieseures aux yeux. ANSI et offrir

L'employeur et/ou l'utilisateur doivent e'assurer du port d'une protection ocu-laire adéquate. L'équipement de protection oculsire doit être conforme aux normes ANSI 287.1-1989 (de l'institut National Américain des Normes), et offrir une protection à le fois frontaire et latéraire. REMARQUE : les lundites de protection sans écrans latéraux et les masques de protection portes sauls. n'offrent pas une protection suffisants.

AVANT DE MANIPULER OU D'UTILISER CET OUTIL :

I. LIRE ET COMPRENDRE LES AVERTISSEMENTS CONTENUS DANS CE

SE RÉFÉRER À LA RUBRIQUE « CARACTÉRISTIQUES DE L'APPAREIL DU MANUEL AFIN D'IDENTIFIER LE MODE D'UTILISATION DE VOTRE

Il existe trois modes d'utilisation pour les outils pneumatiques BOSTITCH :

1. DÉCLENCHEMENT PAR DÉTENTE 2. À LA VOLÉE 3. AU COUP-PAR-COUP

MODE D'EMPLOI

DECLENCHEMENT PAR DETENTE

Un outil à DÉCLENCHEMENT PAR DÉTENTE requiert une action unique pour dédencher l'é-jection d'un élément d'assemblage. Chaque fois que la détente est presses, l'outil éjecte un élément d'assemblage. Un outil à déclenchement par détente ne doit être utilisé que lorsqu'un outil à déclenchement à la volée ou au coup-par-coup ne peut être utilisé à cause des exi-

DÉCLENCHEMENT À LA VOLÉE :

Le modèle avec DECLENCHEMENT À LA VOLÉE contient un palpeur de surface fonctionnant en corrélation avec la détente pour éjecter un élément d'assemblage. Il existe deux méthodes d'utilisation avec ce type d'outil.

A.PLACEMENT D'UN SEUL ÉLÉMENT D'ASSEMBLAGE: pour utiliser l'outil de cette manière; commencez par placer le palpeur sur la surface de traveil; SANS APPUYER. SUR LA DETENTE. Appuyer sur le palpeur jusqu'à ce que le nez touche la surface de traveil, puis appuyer sur la détente pour éjecter un élément d'assemblage. Ne pas presser rop fort l'outil sur la surface. Laisser l'outil reculer de la surface de travail pour éviter l'éjection d'un second élément indésiré. Retirer votre doigt de la détents après chaque operation.

B.ASSEMBLAGE RAPIDE : pour utiliser l'outil de cette manière, maintenir le palpeur de l'outil dirigé vers la surface de travail, mais sans la toucher. Appuyer sur la détente, puis l'outil dirigé vers la surface de travail, mais sans la toucher. Appuyer sur la détente, puis appuyer le palpeur sur la surface de travail en utilisant un mouvement de rebond.

A ATTENTION: L'opérateur ne doit pas meintenir la détente pressée sur les dutils marchant à la voiée sauf tors de l'opération de clouage, car de sérieuses bleasures pour-raient résulter d'un contact accidentel du paipeur avec une personne ou un objet, entraînant un décienchement de l'outil.

A ATTENTION: Lorsque l'appareil est connecté à source d'énergie, éloigner les mains et le corps de l'orifice d'éjection. Un cutil à mécanisme de contact peut «rebondir» après l'éjection d'un élément d'assemblage, et un second élément d'assemblage peut accidentellement être éjecté.

DECLENCHEMENT AU COUP-PAR-COUP :

Le modèle à DÉCLENCHEMENT AU COUP-PAR-COUP contient un palpeur qui fonctionne en corrélation avec la détente pour éjecter un élément d'assemblage. Pour utiliser un outil à détente pour éjecter un élément d'assemblage. Pour utiliser un outil à cédenchement au coup-par-coup, vous dreyz d'abord mettre le palpeur en contact avec la surface de travail SANS APPLYER SUR LA DETENTE. Presser le palpeur puis appuyer sur la détente pour éjecter un élément d'assemblage. Aussi longtemps que le palpeur est maintenu pressé contre la surface de travail, l'outil oxplisers un élément d'assemblage chaque lois que lon pressé contre la surface de travail, l'outil oxplisers un élément d'assemblage chaque lois que lon appuie sur la détente. Si le palpeur rées plus en contact avec la surface de travail, les étapes cidessus doivent être répétées pour pouvoir éjecter un nouvel étément

-olscip de décienchement au coup-par-coup procure un élément de sécurité supplémentaire pur on ordinaire par é

FONCTIONNEMENT DE L'APPAREIL

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VÉRIFICATION DU SYSTÈME DE DÉCLENCHEMENT :

ATTENTION : retirer toutes les attaches de fixation de l'outil avant de procéder à une vérification du fonctionnement de cejui-ci.

1. DÉCLENCHEMENT PAR LA DÉTENTE

A. Détente libre, maintenir fermement l'appareil par la polgnée

B. Placer le nez de l'appareil sur la surface de travail.

C.Appuyer sur la détente pour entoncer un élément d'assemblage. Relâcher l'organe de service (détente) après chaque opération.

<u>ATTENTION</u> : L'APPAREIL SE DÉCLENCHERA CHAQUE FOIS QUE LA DÉTENTE SERA PRESSEE I

SYSTÈME DE SÉCURITÉ À LA VOLÉE (C.T.):

A.Enfoncer l'élément paipeur sur la surface de travail sans actionner la détente. L'APPAREIL NE DOIT PAS SE DÉCLENCHER

B. Éloigner l'appareil de la surface de travail et appuyer sur la détente

L'APPAREIL NE DOIT PAS SE DÉCLENCHER

C.Éloigner l'appareil de la surface de travail et appuyer sur la détente. Presser l'élément paipeur L'APPAREIL DOIT SE DÉCLENCHER sur la surface de travail.

D.Sans actionner la détente, appuyer l'élément palpeur sur la surface de travail, puis appuyer sur

L'APPAREIL DOIT SE DÉCLENCHER

SYSTÈME DE SECURITE AU COUP-PAR-COUP:

A.Appuyer l'élément paipeur sur la surface de travail sans actionner la détente. APPAREIL NE DOIT PAS SE DÉCLENCHER

B.Éolgner l'appareil de la surface de travail et actionner la détente L'APPAREIL NE DOIT PAS SE DÉCLENCHER Relacher la détente; elle doit revenir à sa position initiale.

C.Appuyer sur la détente, et appuyer l'étément palpeur sur la surface de travail L'APPAREIL NE DOIT PAS SE DÉCLENCHER

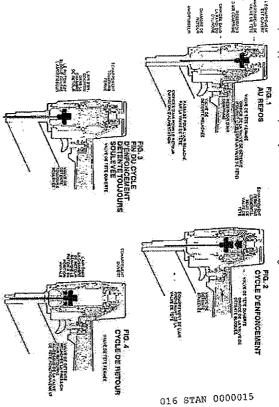
D. Détente libre, appuyer l'élément palpeur sur la surface de travail. Actionner la détente L'APPAREIL DOIT SE DÉCLENCHER

EN SUPPLÉMENT DES AUTRES AVERTISSEMENTS CONTENUS DANS CE MANUEL, OBSERVEZ LES RÈGLES SUIVANTES POUR OPÉRER EN TOUTE SECURITE

- Utiliser cet outil pneumatique BOSTITCH uniquement pour éjecter des éléments d'assemblage.
- vers vous-même ou vers d'autres personnes présentes dans la zone de travail. Ne jamais utilleer l'outil de telle manière qu'un élément d'assemblage peut être dirigé
- Ne pas utiliser l'outil comme un marteau
- Porter toujours l'outil par la poignée, jamais par le nez
- Ne pas altérer ou modifier cet outil par rapport à sa forme originale sans l'agrément de BOSTITCH, INC.
- Toujours avoir présent à l'esprit qu'une manipulation ou une utilisation inadéquate de cet outil peuvent causer des blessures.
- Ne jamais attacher ou maintenir la détente en position déchenchée
- Ne jamais laisser le cloueur connecté au tuyeu d'air sans surveillance
- Ne pas utiliser cet chail s'il n'est pas pourvu, d'une ÉTIQUETTE D'AVERTISSEMENT (WARNING LABEL) lisible.
- Cesser d'utiliser un outil qui perd de l'air ou ne fonctionne pas correctement. Notifier votre concessionnaire Bostitch si votre outil continue à mai fonctionner.

DIAGRAMME DE FONCTIONNEMENT DE BASE D'UN CLOUEUR

système à simple piston. Les illustrations ci-dessous montrent les quatre cycles de fonctionnement produits lorsque l'appareil est activé pour éjecter un élément d'assemblage Les apparells pneumatiques BOSTITCH fonctionnent avec de l'air comprimé et sont équipés d'un



MNTRETIEN DE L'APPAREIL

A ATTENTION:

Lors de l'utilisation d'un outil fonctionnant sous-pression, lire les avertissements du manuel et user d'extrêmes précautions lors de la découverte d'un problème.

ATTENTION: Ressort-poussoir (ressort à poussée constante), il est recommandé d'user de prudence lors de le manipulation du système du ressort. Le ressort est enroulé autour du rouleau mais n'y est pas attache. Si le ressort est fend à de la longueur d'extension, l'extrémité se d'établera du rouleau et reviendra à sa longueur première, risquant lainsi de vous pincer les doigts. Les bonds du ressort ent très fins et risquent de coupor. Il faut aussi vérifier qu'il n'existe pas de torsion du ressort, celles-oi pouvant diminuer la force du ressort.

PIÈCES DE RECHANGE :

il est recommandé d'utiliser uniquement les pièces de rechange Bostiich. Ne pas utiliser de pièces modifiées, ou autres plèces dont les performances ne seraient pas équivalentes aux pièces d'orig-

PROCÉDURE D'ASSEMBLAGE DES GARNITURES:

Appliquer une fine pellicule de "O" LUBE sur toutes les plèces mobiles et pivots. Les opérations de lubriflant "O" LUBE de Parker sur tous les joints toriques, avant de procéder à l'assemblage TITCH dans le circuit d'air avant de procéder aux essais. remontage terminées, veiller à mettre quelques gouttes de lubrifiant pour outils pneumatiques BOS Lors des réparations, vérifier que les pièces internes sont propres et bien lubritiées. Appliquer du

ALIMENTATION D'AIR - PRESSION - VOLUME :

ou par la présence d'eau dans le circuit d'air. Même si la pression d'air îue au manomètre est con nement de l'appareil peut être perturbé par des tuyaux et des raccordements sous dimensionnés, cause qui puisse expliquer une diminution du volume d'air vers l'appareil qu'il n'existe pas de raccords trop serrés, tordus, des niveaux bas contenant de l'eau, ou tout autre symptômes, vérifier les raccords et les tuyaux depuis l'outil jusqu'à la source d'énergie et vérifier diminution de la vitesse ou une alimentation inadéquate, Avant de rechercher la cause de ces recte, les diminutions du volume d'air se traduiront par une perte de puissance de l'appareil, une Le volume d'air est aussi important que la pression. Le volume d'air nécessaire au bon fonction-

PROBLÈMES DE FONCTIONNEMENT

Ď kķ ŋy -	Les éléments d'assemblage se coincent dans , l' l'appareil ou le magasin	D. F. C. C.	,	APPAREIL À ROULEAU			lisasambiaga sa asinoant 🧸 🔻 🗥											•	Aumentation intermittants	Englants						Fondionnement releast			٠.	6			Tuits d'air anne le prepart at le porpar.		Fulte d'air entre le porpa et la nez. Asyssemme VIII du nez consentées, en contrat de la compa et la nez. Asyssemme VIII du nez consentées, en contrat la viz	Pulle d'air au corps de valve de détente, vez le Johns torquis coupés du crés, e ce ce le Romptsoer les joints torques l'Euste d'air à la flor de velve de détente : l'obstatriques ou caracter.	PROBLEME	
Plaque d'sipetement inadéquate pour te système d'auropiement du rouleau en ablér ou playtique	Talle incorrects des signers recentled considerations. Talle incorrects des signers d'assemblage conjugations de la conference de la conferen	Joints briques du piston d'alinectation	Piston d'alimentation sec.		Vis du nezimagasin desserdes,	i Asia incorrecte des élémente d'assemblage, , , , , , , , , , , , , , , , , ,	Camai de l'entenceur usé.	Magaza 860 of entreses,	Enfonceur ded og cased ्रहर देश मान्य प्रकार का का मान्य मिला placer l'enfonceur/véditer la joint de platon.	Cointa toriques da la vatve de détente coupés ou usés.	Fully à la gemiture du chapeau de tête,	Tallie incorrecte des élements d'essemblage	Elements d'assemblage torbus	Vis du megasin dasserréssi;	Praesion deit trop teitte,	Researt du poussair endommagé.	Cont du pleton usé,	du chault d'air.	Particuled obstrusint le canst de l'extonosur,	Amordoseur usé	Presiden d'strifrep telbiq	correctement wer i'amortisseur interseur,	nesseuses suostuam se capal de l'extonceur. , , , , , . Démonter le neztentonceur et nottoyer. L'extrèmité du qvéraire n'est pas nostionnés	Système détente uné ou ayant une fuite	doints tonques ou gernitures coupés ou usés,, techappement bloqué	Ressort du chapses de cylindie cassé,	Appareil sec, absance de lubrification.	Valve de têle forcée dans le offabraco	Jointe loriques de la valve du tôte coupés ou ucée.	Appareil sec, absence de lubrification	Vis de chapass dessertées,	Amortisaeur de tête coupé ou usé	Carried space at couple of the	Joints toriques ou garriture coupés ou usée, ",,,,, Remplacer les joints toriques	wears verses ou garritimes coupse of uses, cover hampiscer joints letiques (gamitimes). Via du nez despertées, e comment en contrat Restatrer les via	Jointe toriquin coupies ou cares.	CAUSE	ATTENDED TO A TO A CO.
Ceaser (rutisation Réglar les communes à cheviles du système d'entoulement du routeau en actor ou plantique				The state of the s	Reverse is vis.	i sam incorrecte des étérments d'assemblage,,	Pempiacer la magasin. Rempiacer la nezveider la porte	Netbyer et tubriller le magaan avac un subrillant BOSTITCH	. Remplacer l'enfonceur/vérfier le joint de platen.			Utiliser les élements d'assemblées recommendés.		Housefor tes vis.	. Vértier le circuit/réglar le pression d'air.	Contract of Statement account CM		, reinplacer les mécords rapides et, circuit.	Oámoster le nez/enforceur el mettoyer.	, Rampiacar Pamonissaur.	Démonter et lubrifier Vériffer le circuit d'air.		Démonter le naz/antonosur at nottoyer.	. Remplacer le système de détente.			. Utilizer un lubrijant BOSTITCH		Remplacer les joints toriques:	. Children un babellage BONTTON	Possorier les vis	Cenylarer famorisseur.	Sampleder l'amortiereur.	Remplacer les joints toriques	 Hampiacet Jointa lociques /gamitures. Researer los vis 	Remplacer les joints loriques ;	CORRECTION	, 4